



MOTOR CYCLING

No. 515 VOL. XX

WEDNESDAY
SEPT. 24, 1919

Registered at the G.P.O.
as a Newspaper

Douglas Wisdom

IT'S not the weight of the engine that matters—it's what you can do with it. Light weight and heavy work is the combination which has made the Douglas famous. It will carry you anywhere, and your goods as well—fast or slow; it only wants taking care of.

You need no apprenticeship to engineering, to understand a Douglas

Send your name and address with Dept. 4, for our "Talk Power Programme," which will be ready in the hands of a few weeks.

DOUGLAS MOTORS, LTD.,
KINGSWOOD BRISTOL.
10, Newman Street, London, W.1.
Paris Depot—100, Boulevard Diderot.

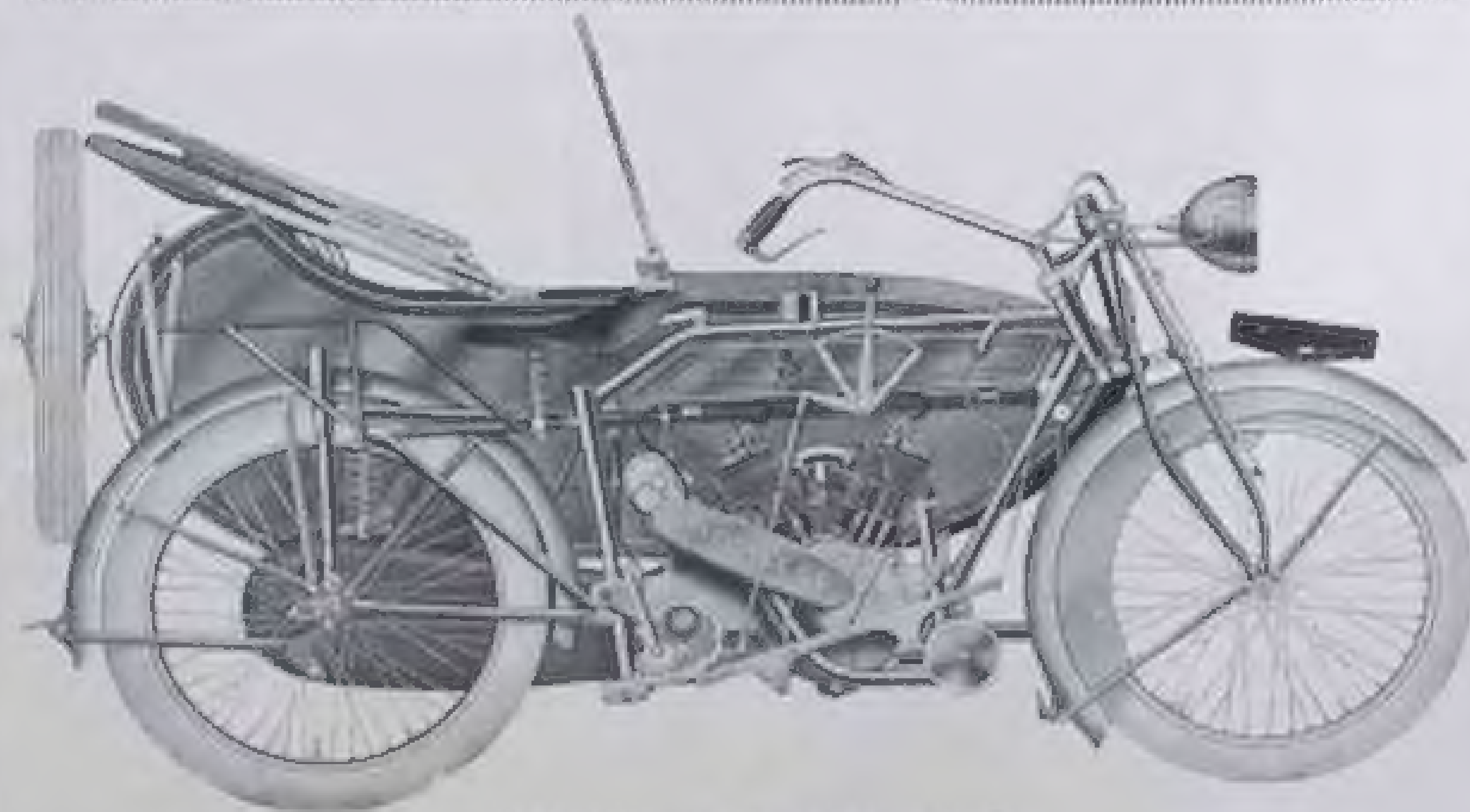


Douglas

B **R**ITISH **L**IGHTING & **I**GNITION **C**OMPANY LTD.
MAGNETOS STARTING SETS MAGNETOS
CHESTON ROAD, ASTON, BIRMINGHAM.

Matchless

THE PERFECT PASSENGER MOTORCYCLE



MODEL "H" FOR 1920.

Important Features:

Cantilever spring frame—double motion spring forks.
Spring sidecar frame—handsome coach-built body.
Gate change three-speed gear—metal indestructible clutch.
Silent chain drive entirely enclosed in oil-tight case.
Combined kick-starter and valve lifter.

Interchangeable, quick detachable wheels.
28 in. x 3 in. Clincher Dreadnought tyres.
Footboards, mudshields, large mudguards.
Stands to all three wheels.
Luggage carriers on machine and sidecar.
Patent truss connecting rear wheel to sidecar wheel, etc.

Forming absolutely the finest passenger motorcycle ever placed on the market

H. COLLIER & SONS, LTD.,

44-45, Plumstead Road, Plumstead—LONDON, S.E.18.

Telephone—
Woolwich 17 and 18.

Works:—Burrage Grove and Maxey Road, Plumstead.

Telegrams—
Matchless, Woolwich, 7.

The CLYNO 1,800 Mile Trial

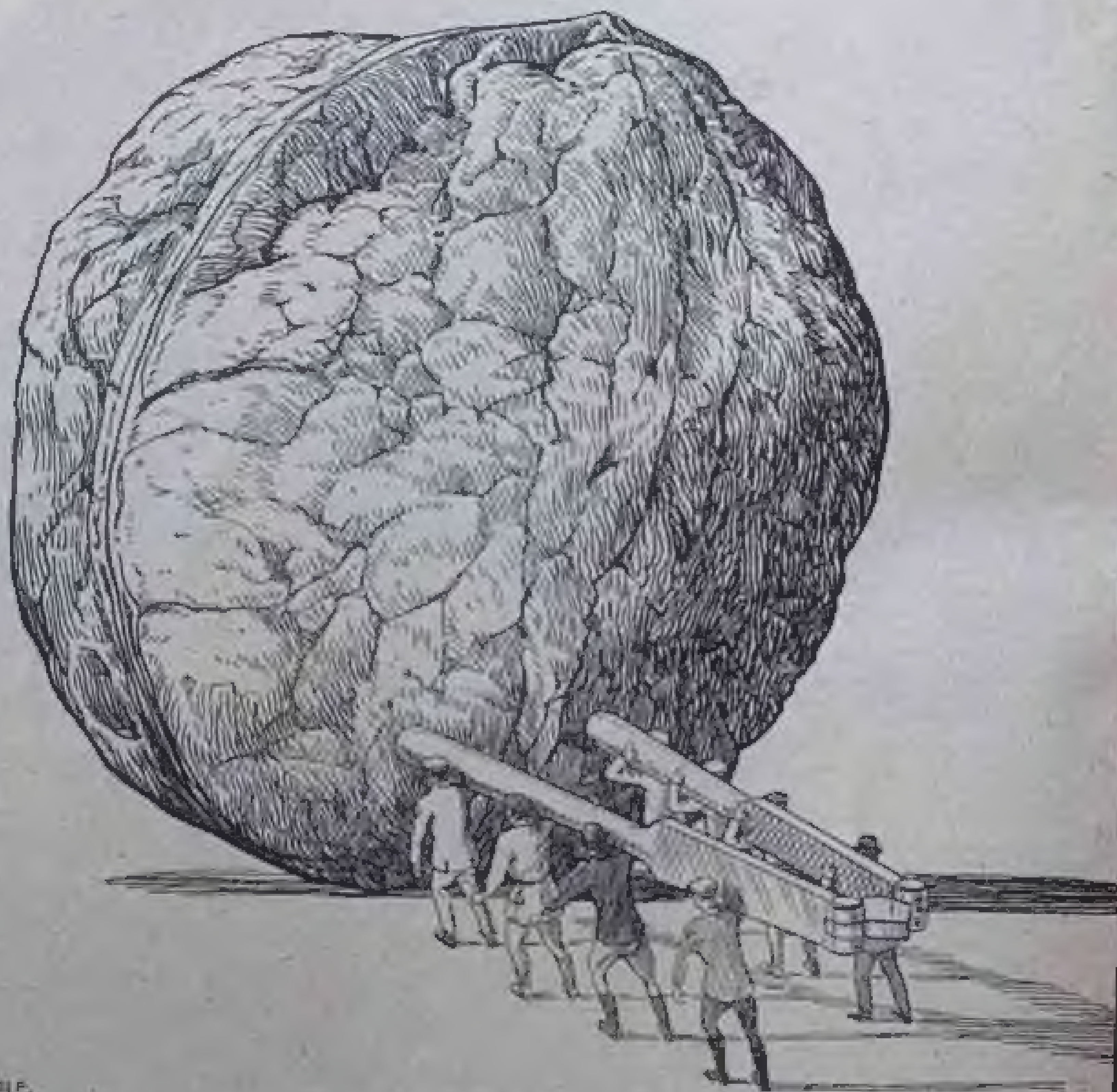
That was the first stage in the great "stunt," and the way our "steeds" performed was encouraging indeed. We didn't spare them either. Each was loaded to its utmost and, of course, carried an adult in the side car. We left Wolverhampton in the afternoon of 18th August, proceeded via Manchester to Littleborough and Blackstone Edge, which was climbed mostly on top gear. Then on to Halifax and Keighley. The climb out of Halifax was taken completely on "top." Then we went from Skipton on to Hexham, successfully manipulating that ferocious hill at Kettlewell.

So far so good, 250 miles without a hitch. And an average 20 miles an hour all the way.

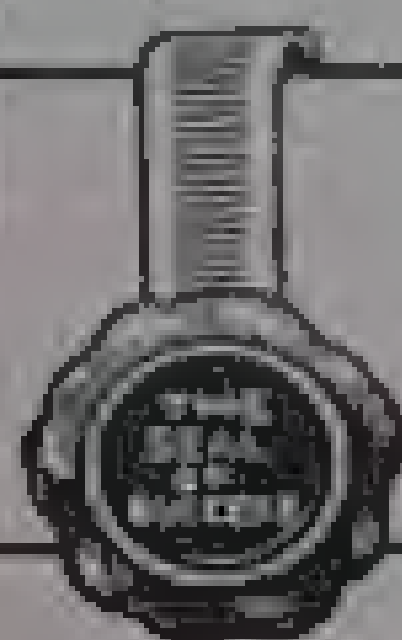
We shall report the second stage in our next advertisement in "Motor Cycling," dated 1st Oct.



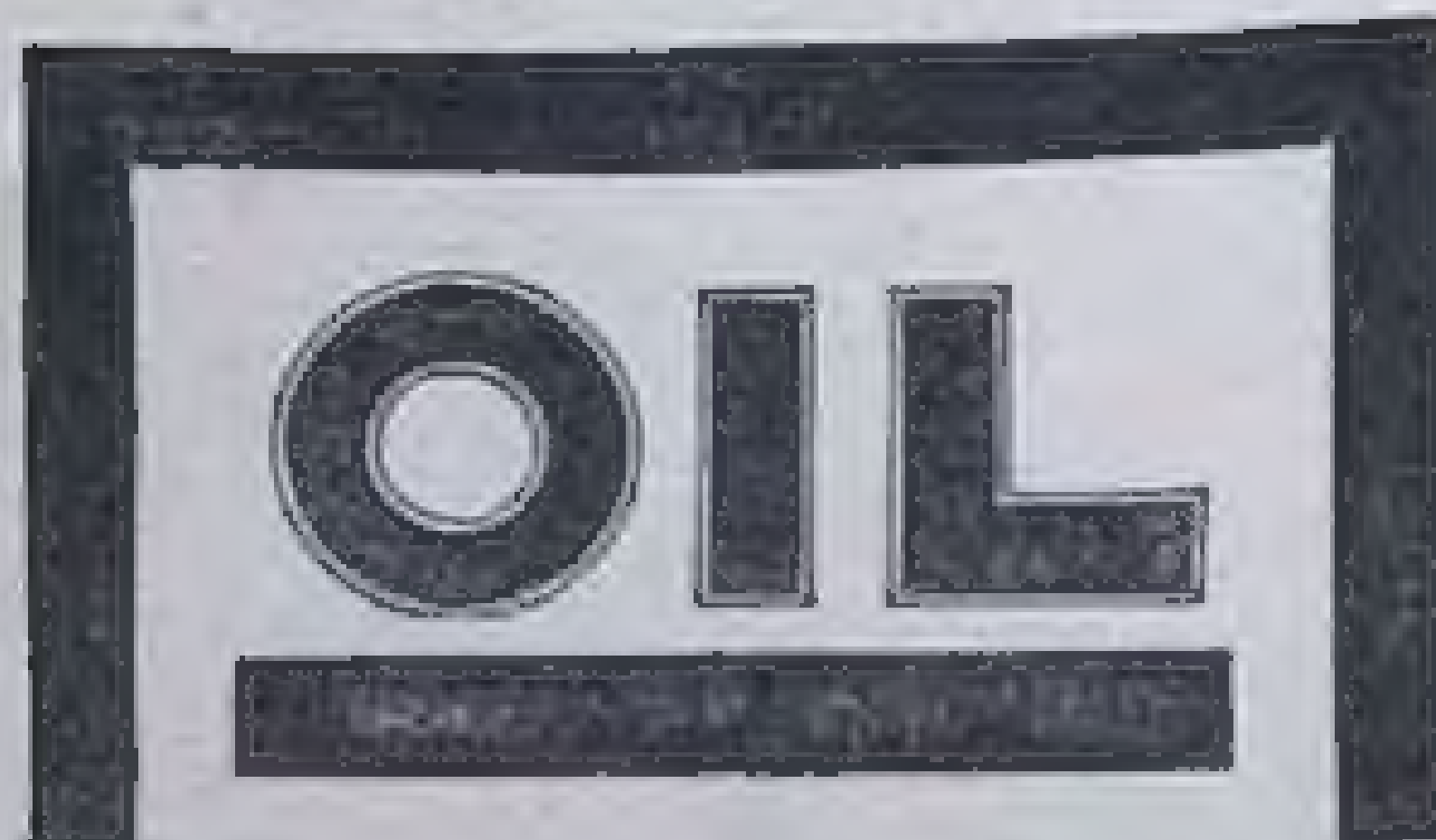
CLYNO ENGINEERING Co.
Clyno Works,
WOLVERHAMPTON.



ELF,



THE
Newcastle-upon-Tyne Motor Co., Ltd.,
ST. THOMAS' STREET, NEWCASTLE-UPON-TYNE.



You can buy oil on "**PRICE.**" You can also buy oil on "**QUALITY.**" If you buy on "price" you save "**PENCE**" at the time of purchase; if you buy on "quality" you save "**POUNDS**" later on in the direction of wear and tear and general depreciation of engine, you are able to make full use of every ounce of power developed, and, further, think for one moment of the difference in the value of service rendered by an engine running under the advantages which only "tip-top" grade oil can ensure.

—QUALITY ALWAYS TELLS—

Read this letter from a well-known competition rider:—

"You will be interested to hear that in the Redditch and District Open Trial last Saturday—pronounced as being the stiffest one-day trial of the year—I was successful in obtaining 100 per cent. marks, securing

—A GOLD MEDAL—

Only one other side-car machine gained an award. I SIMPLY ROMPED UP ALL HILLS, GAVE MY ENGINE PLENTY OF



and, without any fear of sooted plug, carried on. If all competitors knew the value of 'Coolie' there would be more gold medals won.

"(Signed) H. BOYNTON."

Then read this extract from "The Cycle Trader":—

"Mr. G. REX MUNDY states that he is a consistent user of, and a firm believer in, 'COOLIE' MOTOR CYCLE OIL."

Obtainable of all dealers in quart, 3-gallon or gallon tins, and in 5 or 20 gallon drums.

KINDLY REPORT ANY DIFFICULTY IN OBTAINING TO

**THE COUNTY CHEMICAL CO., LTD.,
CHEMICO WORKS, BIRMINGHAM.**

110
Guineas

110
Guineas

The Speedy Car

BRITISH MADE

ECONOMY—THE ORDER OF THE DAY. The Best Value at the Lowest Cost.

The Speedy Two-Seater Car ONE HUNDRED AND TEN GUINEAS.

Specification.

5 h.p., Twin Cylinder V-shaped Engine, air cooled.
First-grade Magneto.
Two speeds and reverse.
6 in. Leather-to-metal Cone Clutch.
Chain drive from engine to gearbox, chain from gearbox to countershaft and belt from countershaft to driving wheels.
Two Belts, one on either side, to back wheels.
Chassis, 3 ft. 6 in. by 4 in. by 17 in.
Four quarter-elliptic Springs.

Wheels, four disc and wired.
Domed Wings.
Tyres, 6 1/2 by 6 1/2 or 16 by 1 1/2.
Carburettor of first grade.
Lighting, Electric.
Body, stream-lined, any colour.
One-joint Wind Screen.
Steering, direct adjustable rake.
Weight under 8 cwt.
Mileage 60 per gallon.

Agencies still open in several Districts.

Individual orders filled in rotation.

TERMS—Ten Guineas with Order,
balance when Car is ready
for delivery.



The Pullinger Engineering Co.

Works: Peckham, S.E., and Putney, S.W.

Registered Office:

Giltspur Chambers, 52, Holborn Viaduct, E.C.1.

110
Guineas

110
Guineas



Covers All Risks.
Prompt Repairs
anywhere in
Great Britain.



The WHITE CROSS INSURANCE

ASSOCIATION LTD
5 Moorgate St,
E.C.2 Branches



Liberal No-Claim Bonus.
No Compulsory
Arbitration Clause.
Small Premium.
Send for particulars



The All-Red Two-Stroke

Metro-Tyler

Unsurpassed for
RELIABILITY,
SIMPLICITY,
and ACCESSIBILITY.

SPECIFICATION.

2 1/2 h.p. Metro-Tyler Engine.
20 mm. x 70 mm. stroke.
Horizontal 20-Pin Valve
and well-sprung saddle, en-
suring maximum of comfort.
Amic Carburettor, C.A.V.
Magneto, 16 x 2 1/2. Clincher
Tyres. John Bull Bell. Two
Side Paddle Brakes.

TWO MODELS. — Single speed
and Two-speed with or without
Disc Wheels.
Best Finish. Has Enamel.



THE 2 1/2 THAT WILL DO THE WORK OF A 3 1/2 H.P.

Only the Best Materials and Workmanship used in the ALL-BRITISH LIGHTWEIGHT OF SUPERIORITY

SOLE AGENTS FOR
LONDON: The Brook Motor and Eng. Co., 308, Deansgate, Manchester; SOUTH HAMPSHIRE: C. W. May, 3, High Street, Fareham; DEVONSHIRE: P. Fike, Alphington Square, Exeter; BIRMINGHAM AND DISTRICT: E. Rickham, 43, Stokes Croft, Bristol; LINCOLNSHIRE: Best & Sons, 182, Glenborough Rd., Grimsby.

2 1/2 h.p. version from London and the Name Certificate should be addressed direct to the

TYLER APPARATUS CO., LTD., Banister Road, Kilburn Lane, LONDON, W. 10.

Telephone: "Tylinette" Phone, London.

Telephone: W. London 3341 (Lines)

DO NOT FORGET TO MENTION "MOTOR CYCLING."

Chekko Brake and Clutch Lining.

STRIKING TESTIMONY!

Motorcycle brake efficiency pulls up a runaway car!

"A KNIGHT ON WHEELS."

Sir,—I was a witness recently of a remarkable instance of how a motorcycle and sidecar were of invaluable assistance to a heavily loaded car in distress.

A brand new 6 h.p. A.J.S. combination was descending Kirkstone Pass towards Patterdale when it was overtaken by the car—seven up—out of control, as its brakes were ineffective.

The car driver vainly endeavoured to avoid a crash with the A.J.S., but ran into the back of the bicycle, the rear side front wheel of the car being between the sidecar and the cycle.

With great presence of mind the cyclist maintained his position on the road, and by gradually and forcibly applying his brakes succeeded in checking the runaway, finally reducing its speed sufficiently to permit of its being run into the back.

Too much praise cannot be given to the cyclist—and his machine—for his courage and skill in such an emergency. Nothing would have been easier than for him to put on speed and have left the car to a certain fatal smash, as only by some miracle could such a result have been avoided.

The A.J.S. subsequently continued its journey, and when I left the scene the car was being made serviceable by its owner.

J. D. N. FOREMAN.

This marvellous performance was rendered possible only by the fact that the brakes of the "A.J.S." were fitted with CHEKKO Brake Lining, and it is a still further and remarkable instance of the reliability and desirability of CHEKKO-lined brakes.

Are YOUR brakes capable of standing so severe a test? The only guarantee of absolute safety in all emergencies is to ensure that your brakes are shod, as the "A.J.S." were shod, viz., with CHEKKO Lining

May be purchased from any garage.

Send postcard for sample, prices and terms, to the Sole Manufacturers:
CRESSWELLS' LTD., Wellington Mills, BRADFORD, YORKS.
11, Bothwell Street, GLASGOW; Baltic Buildings, Gloucester Place, SWANSEA;
44/45, Exchange Buildings, New Street, Birmingham.

Telegrams—"Arbore, Bradford."
Telephone—924 Bradford.

Consultants to the Admiralty, the India Office and War Office, the
Colonial Agents for the Colonies, and numerous British Railways, etc.

We make them both—

The O.K.—JUNIOR Lightweight Motor Cycle that is known in all parts as "the big-hearted miniature" and in the pre-war days won an enviable reputation, and—

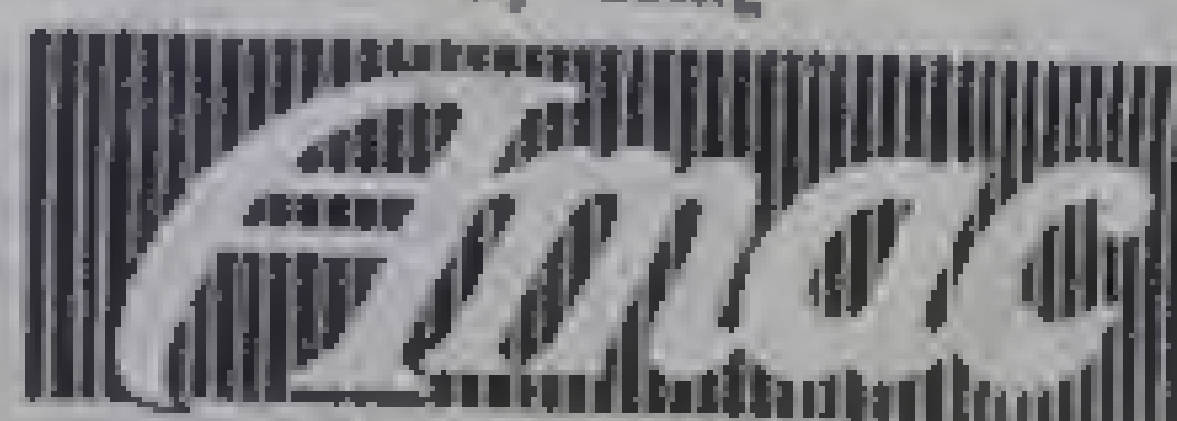
The CRITERION BICYCLE, which represents the finest value in the world.

HUMPHRIES & DAWES, LD.,
Hall Green Works, BIRMINGHAM.



Economise

by using

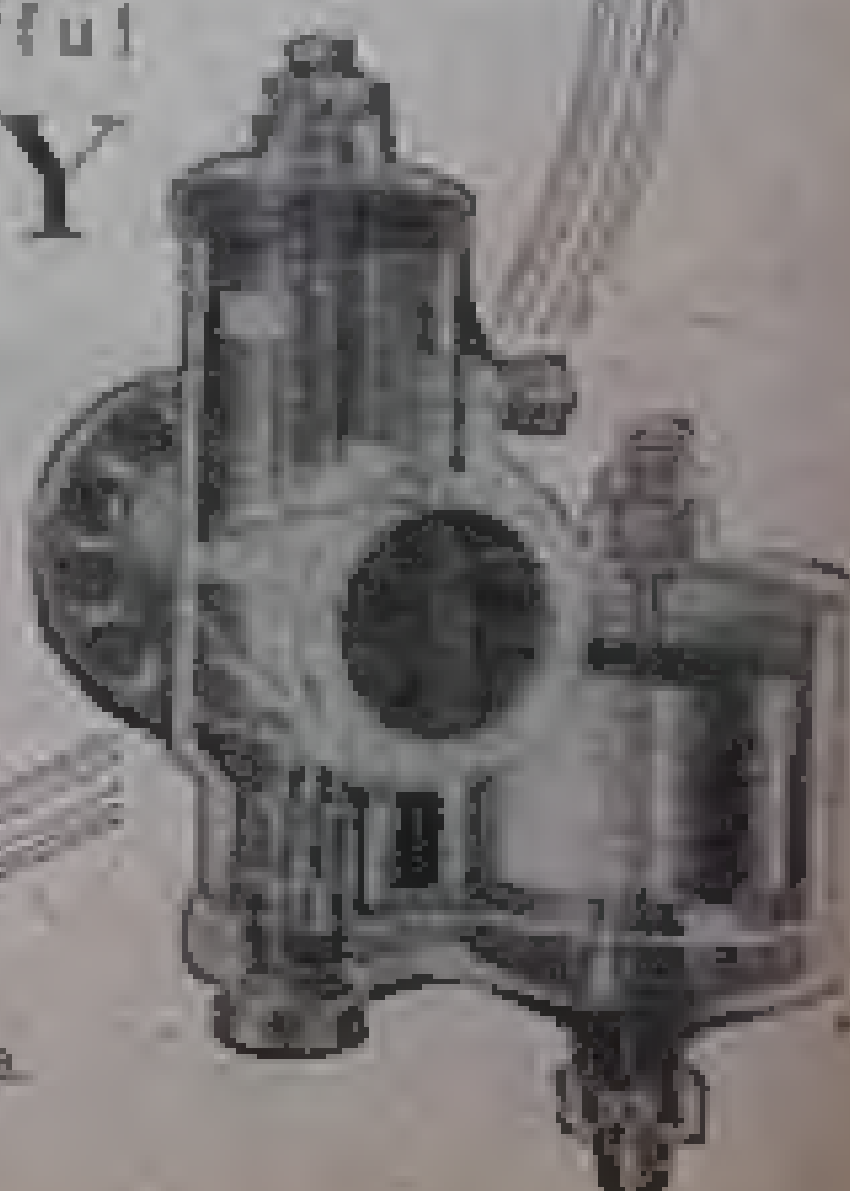


the Carburettor that guarantees
Perfect Running under all con-
ditions, More Power, Greater
Flexibility and Wonderful

ECONOMY

Catalogue and particulars with
pleasure from

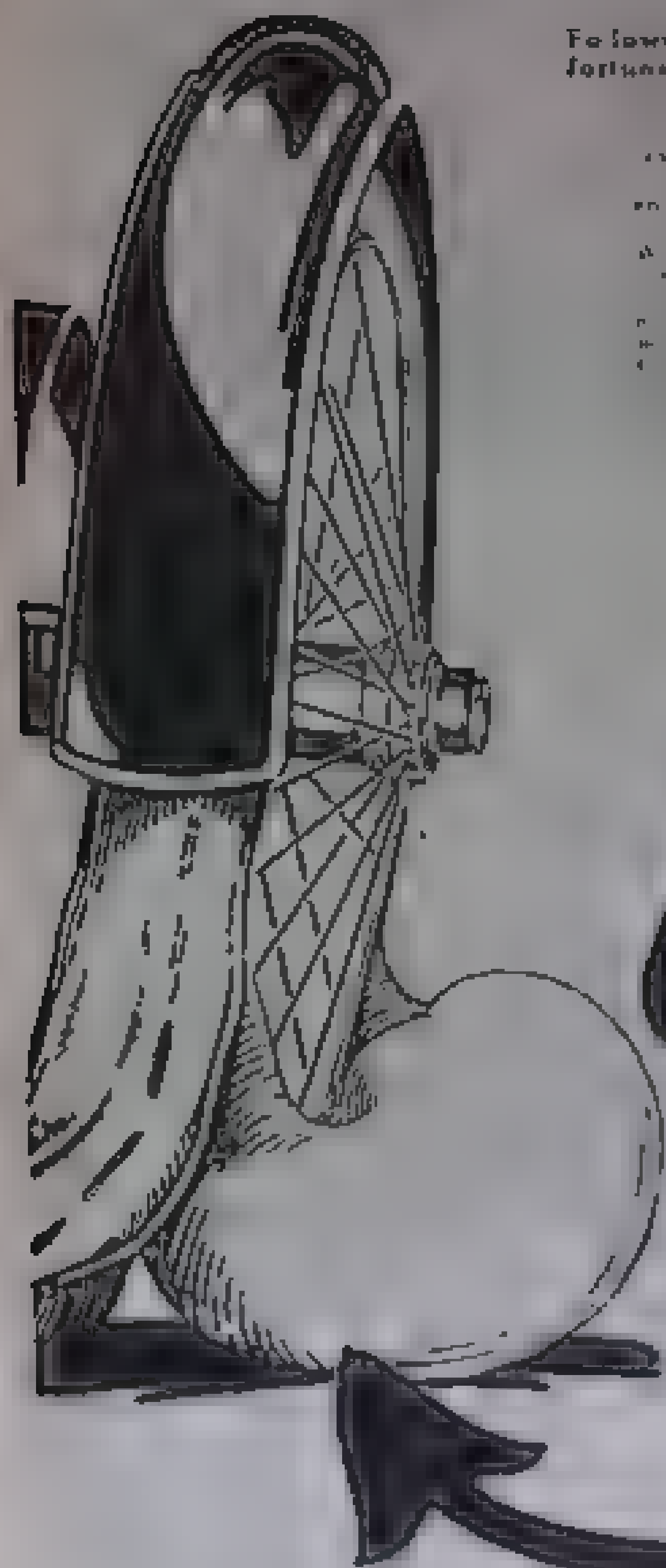
AMAC, Limited,
4th Dept.
ASTON, BIRMINGHAM



A STARTLING EXPERIENCE

Following is an account of a surprising experience of a gentleman who was so fortunate as to use a Helix Inner Tube.

1. 在 1990 年 12 月 31 日，A 公司有一笔应付账款，金额为 100 万元。在 1991 年 1 月 1 日，A 公司有一笔应付账款，金额为 100 万元。在 1991 年 1 月 1 日，A 公司有一笔应付账款，金额为 100 万元。



In
TU

Inner TUBES

Don't you think
it would help you
to use these
wonderful Inner
Tubes?



W. & A. BATES, LTD., St. Mary's Mills, LEICESTER

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

CONUNGLI WOLFGLI SHIRKHO FILMS

[illegible]

KINDLY MENTION "LOVE & HONOR" IN ALL CORRESPONDENCE WITH AGENTS.

BLACK PRINCE

2-SPEED MOTORCYCLES

2½ h.p.,
50 Guineas



3½-4 h.p.,
60 Guineas

"SERVICE."

The Weatherproof Motorcycles.

ADVANCE FOLDERS NOW READY.

WAITING LISTS OPEN.

AGENCY APPLICATIONS INVITED.

BLACK PRINCE MOTORS (^{Apply} ~~Cameron~~), ASKERN, DONCASTER.

NOTICE.

WE wish to advise the Trade and Public that owing to the greatly increased cost of production the price of all

"Blackburne" Motorcycles

has been increased.

The following current prices (which are subject to revision) apply to all orders on our books, and machines will be invoiced at prices ruling at time of delivery:—

4 H.P. Solo	- 95 Gns.	3 H.P. Solo	- 112 Gns.
Sidecar	30 Gns.	Sidecar	32 Gns.
Spare Wheel	-	-	6 Gns. ¹

Messrs. BURNEY & BLACKBURNE, Ltd.,

166-168, SHAFTESBURY AVENUE, LONDON, W.C.2

Works: Tottenham, Surrey

Telegrams: Burnbike, Westland, London

Telephone: Regent 275

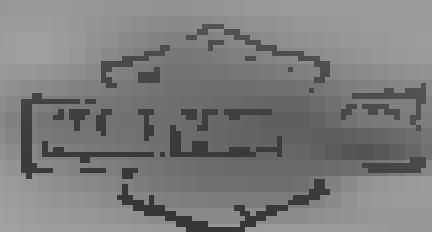
HARLEY-DAVIDSON



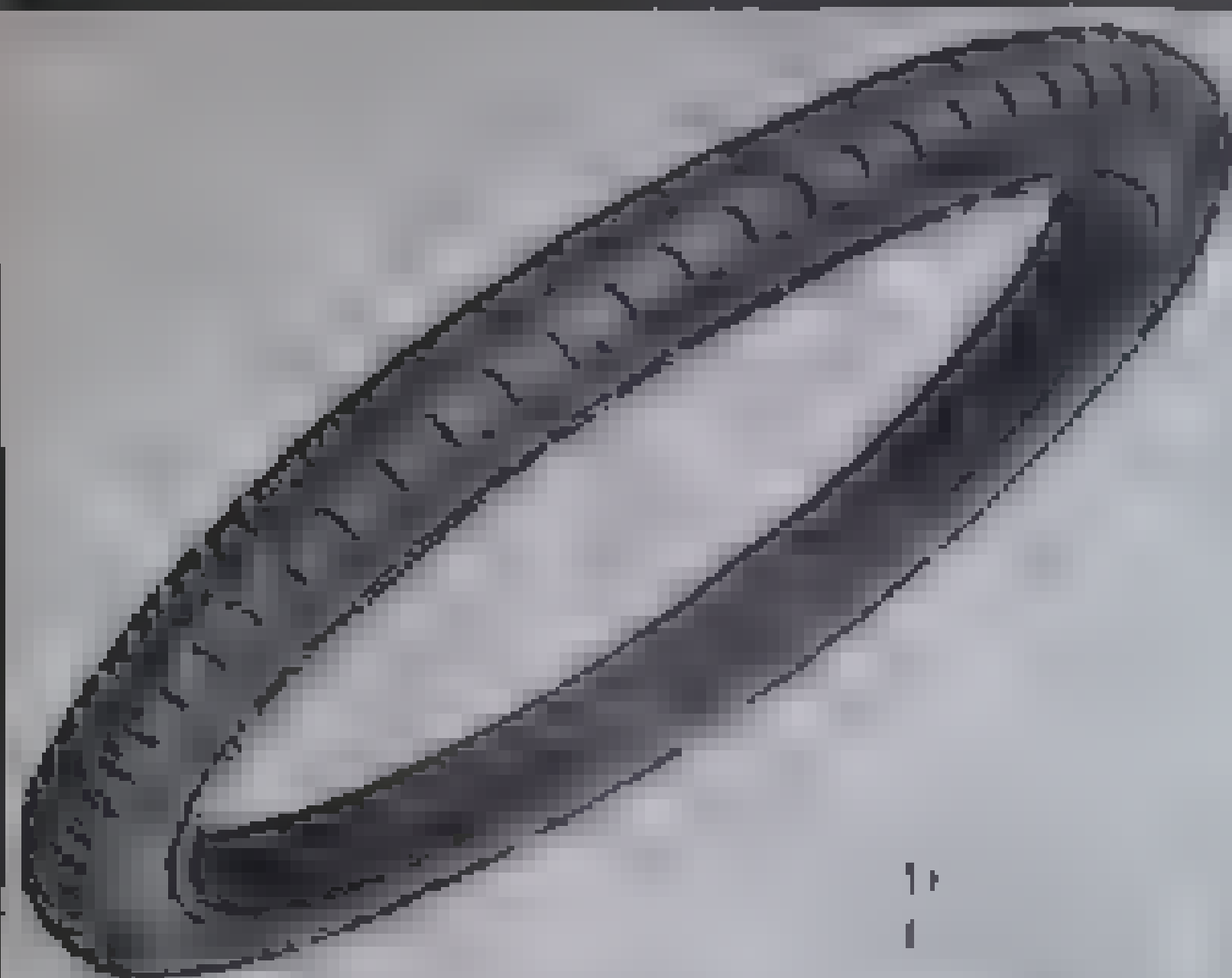
**We are now ready to book
orders for future deliveries.**

If you desire to add your name to our
Waiting List, write us without delay, as
all orders will be dealt with in rotation,
and deliveries have now commenced.

Harley-Davidson
74, NEWMAN STREET,



Motor Co., Ltd.,
LONDON W 1.



Wood-Milne

Keygrip

MOTORCYCLE TYRES

WOOD-MILNE LTD
& GEORGE SPENCER
MOULTON & CO. LTD

42-45, Weymouth Street, W 1



SPHINX



4 EACH

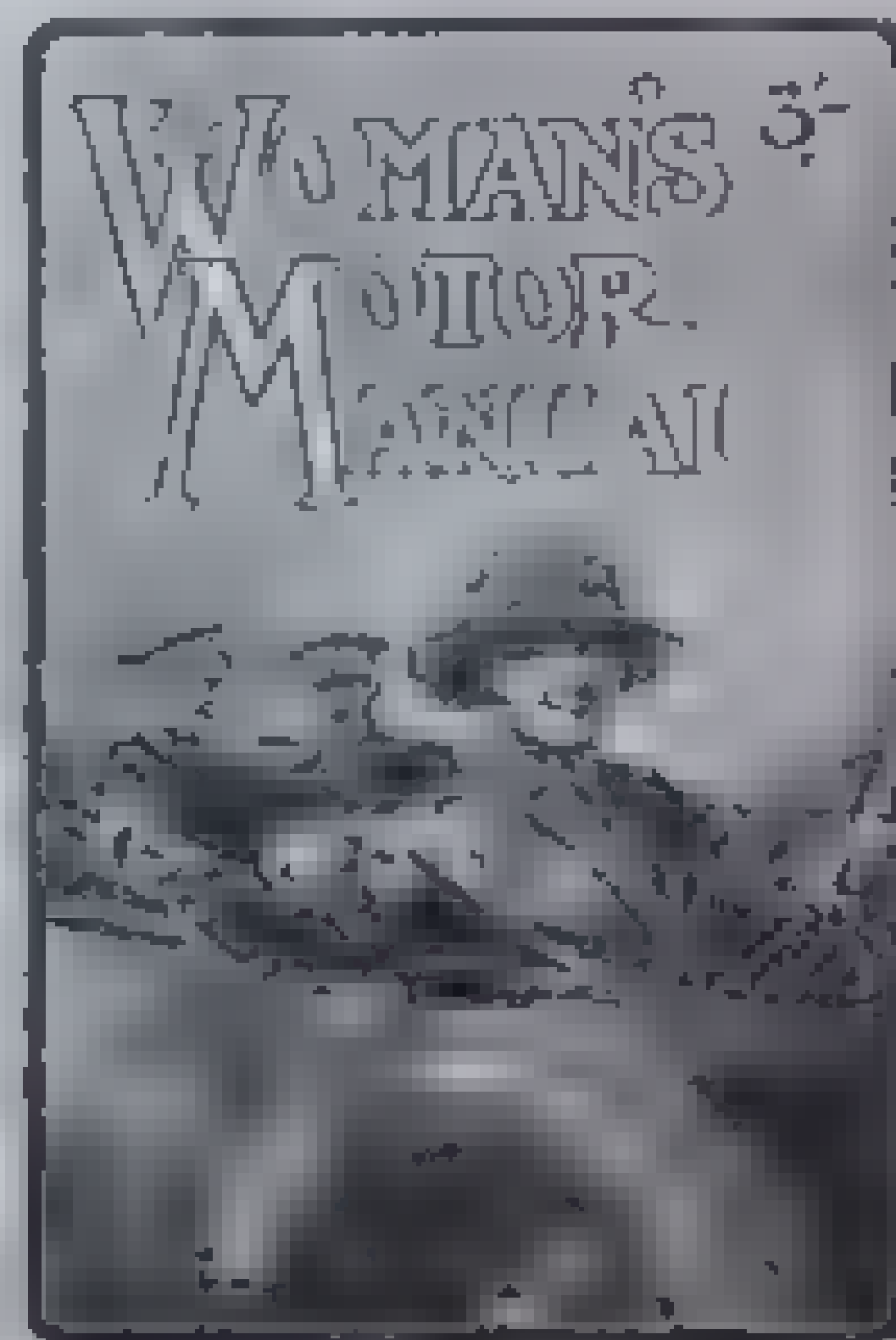
The
UBIQUITY

The Sphinx Mfg. Co.
Birmingham

PLUGS

NOW READY.

Entirely New Publication.



ALL ABOUT MOTOR DRIVING
AND THE MANAGEMENT OF
MOTOR VEHICLES

By

GLADYS DE HAVILLAND

PART I.—How and where to obtain employment as a woman driver, with rates of pay, hours and conditions of work

PART II.—How to understand, drive and look after a motor vehicle. A very simple illustrated handbook on the essential knowledge required when handling a car

WELL ILLUSTRATED

3 net Post free, 3.3

TEMPLE PRESS LIMITED
7-15 Rosebery Av., London, E.C.1

Who
1. J. LADY, LTD. Telephone 1100
LONDON, E.C.4

The "Precision" "Big" Twins.

Three New Models

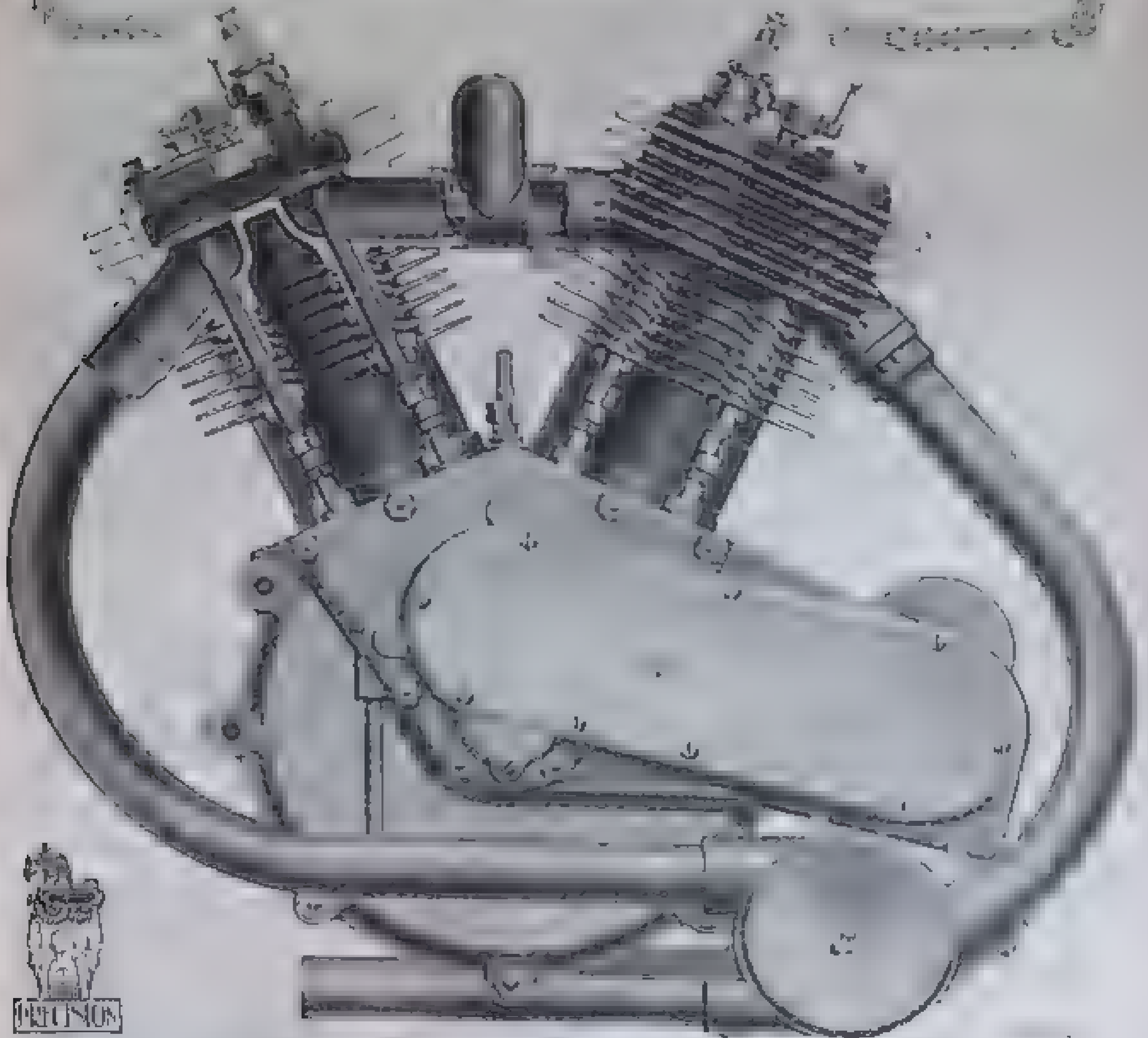
As 100 cc.
4 hp. 85 cc.
44 cc.
10 hp. 85 cc. 96
cc.

Water Cooled
10 hp. 85 cc. 96
cc.

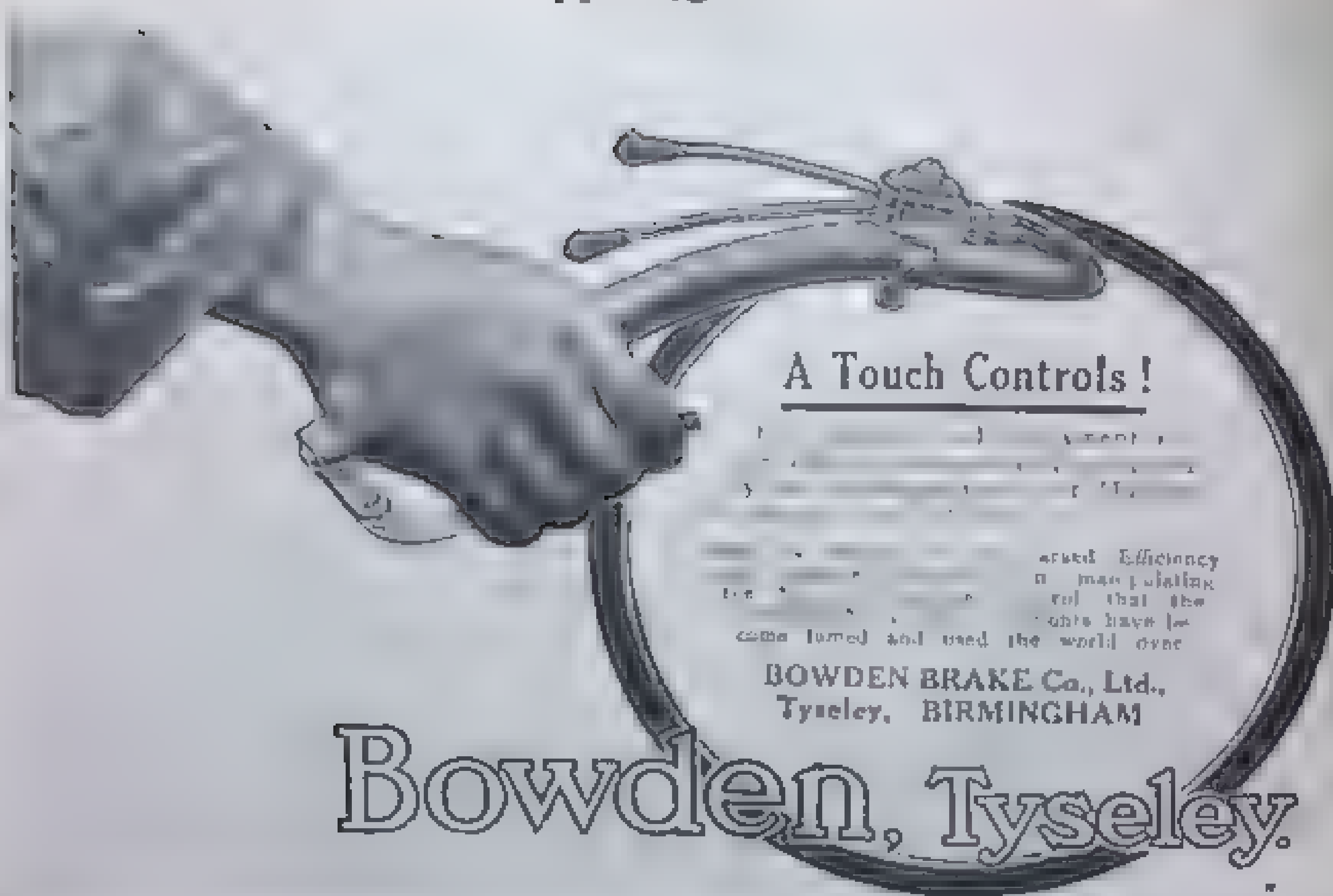
PRODUCED as they are by a firm of the widest experience, they impress us as being of sound common sense design, and of such construction that there is every promise of great satisfaction on the part of the user. We understand that shortly several Precision engine "big twin" cyclecars and motorcycles will be offered to the public.

—The Motor Cycle

"The Same as You can Buy."



PLEASE REFER TO "MOTOR CYCLING" FOR THE LATEST LIST OF PRECISION MOTORCYCLES



A Touch Controls!

... and Efficiency
... manipulating
... that the
... have be
... come turned and used the world over

BOWDEN BRAKE Co., Ltd.,
Tyseley, BIRMINGHAM

Bowden, Tyseley.



SPECIAL FEATURES.

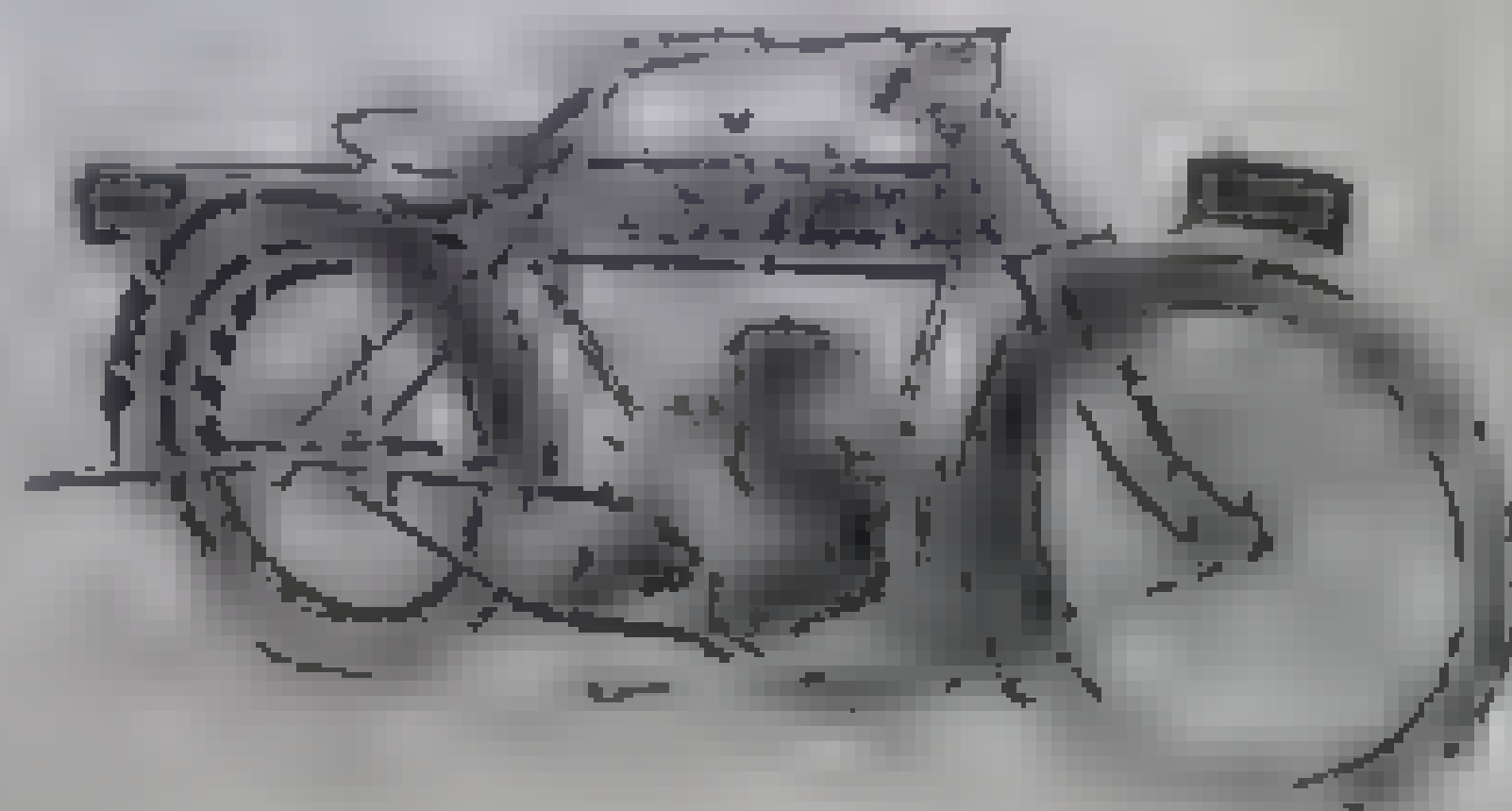
THREE PORT ENGINE with exceptionally large Ports.
LARGE COVER to TRANSFER PORT for freedom of

ALECTO 3 1/2 h.p. Two-Stroke.

SPECIFICATION

FRAME
FORK
ENGINE

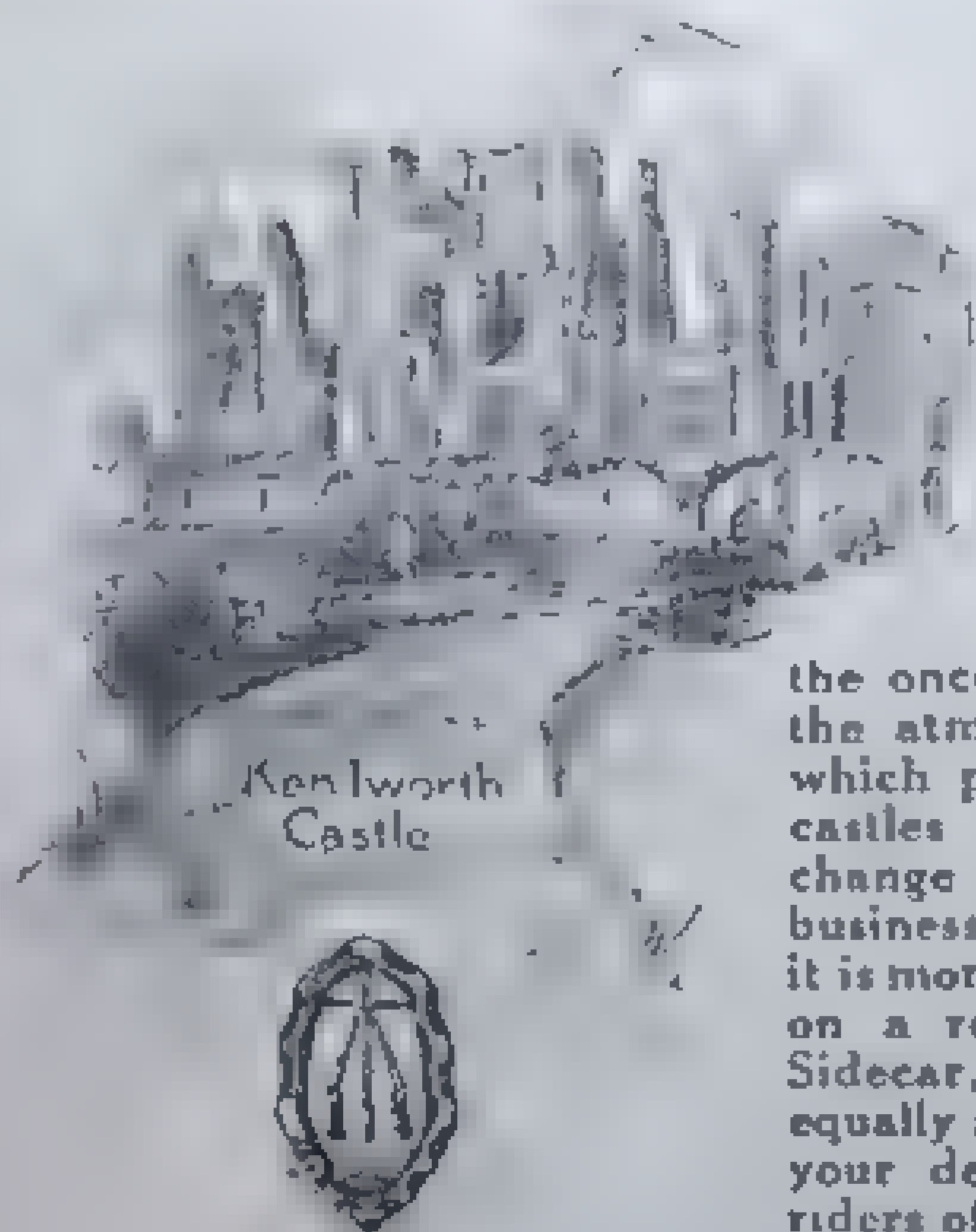
SEAT
CAPACITIES
MAJESTO
BELT
HANDLE
TANK
WHEELS
TYRES



CASHMORE BROS.

ZOTA WORKS, BALHAM.
LONDON S.W.12

£83 - 7 - 0 Retail.



Kenilworth
Castle

Places of historic interest—

the once "stately homes of England" and the atmosphere of peace and tranquility which pervades these remains of ancient castles form a pleasant and healthful change from the rush of city life and business. You can save time, trouble, and it is more economical to take your pleasures on a reliable B.S.A. Motor Bicycle and Sidecar, enjoying the "getting there" equally as much as the time you spend at your destination. Thousands of satisfied riders of B.S.A. Motor Bicycles demonstrate daily the excellent service and popularity of B.S.A. mounts.

Fitted with a

B.S.A. COUNTERSHAFT THREE-SPEED GEAR

you are certain of sufficient power and absolute reliability
on the most difficult roads

B.S.A.

MOTOR BICYCLE

Send for Illustrated Catalogue.

THE BIRMINGHAM SMALL ARMS CO., LTD.,
SMALL HEATH, BIRMINGHAM.

MOTOR CYCLING



A pretty view of Kenilworth Castle

"EXPERT" "GENERAL" Anomalies Which Arise from the A.C.U. Definition.

THE A.C.U. definition of "Expert" and "General" is a source of much trouble and trouble. The interest taken in competitions is very general and does not rest merely amongst the sportsmen. It affects the public and the prospective motorcyclist, who this year even the have displayed extraordinary interest in any sporting event calling for the ascent of a freak hill. I have seen many a man who has been a speed train and a member of the classic Land Rover Club. It was not until it was explained to me that it was not in the proceedings.

When for "Experts" had

When for "Experts" had

It is a source of trouble for the future of the game. In the competition world there is one point which is at present being discussed wherever club men and sporting riders meet. This is nothing more than the classification of riders into the two classes. It is a source of trouble for the future of the game. For example, it often happens that at a hill-climb race in the general class makes better time than do the experts. Are the experts then to be awarded prizes for themselves a beating, beaten by the general? No, no indeed, for we take it that the general class is intended in order to give a chance of winning rewards to riders with no special prizes when beaten by the amateurs. Surely awards in the expert class should only be given if better performances are made than in the general class.

Concrete Examples

Let us suppose that there are five riders in the expert class and five in the general class. The expert class is divided into two groups, 1 and 2. The general class is divided into two groups, 1 and 2. The expert class is divided into two groups, 1 and 2. The general class is divided into two groups, 1 and 2. The expert class is divided into two groups, 1 and 2. The general class is divided into two groups, 1 and 2.

If we imagine that the number of riders in the expert class was larger, and that five prizes were given, then the fifth prize should not go out to 5, but should be duplicated.

Let us suppose that there are five riders in the expert class and five in the general class. The expert class is divided into two groups, 1 and 2. The general class is divided into two groups, 1 and 2. The expert class is divided into two groups, 1 and 2. The general class is divided into two groups, 1 and 2.

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"Expert" versus "General"

and exports. And it is a general rule that such a rate, and in such a case is 2 and 1/2%.

A "special" may be
 A "general" may not be
 The general re-
 The general red

way he may
class. He might not have any assets.

ruling on the working of the qualification, and when the A.C.U. committee arrived from the physical education six days perhaps they will attract attention. At the same time the awards should be announced that unless we will not be run, I say four entries. In that case, I think it is better to have a few more days for the entries, and they have a good deal of extra work. The committee should be asked to consider prize, four entries on a point. The first prize should still be awarded, however, be

GRAPHITE AS AN AID TO LUBRICATION.

In the case of the lubrication problems of internal combustion engines, the writer has not heard, or seen, any of the new developments in the field of lubrication.

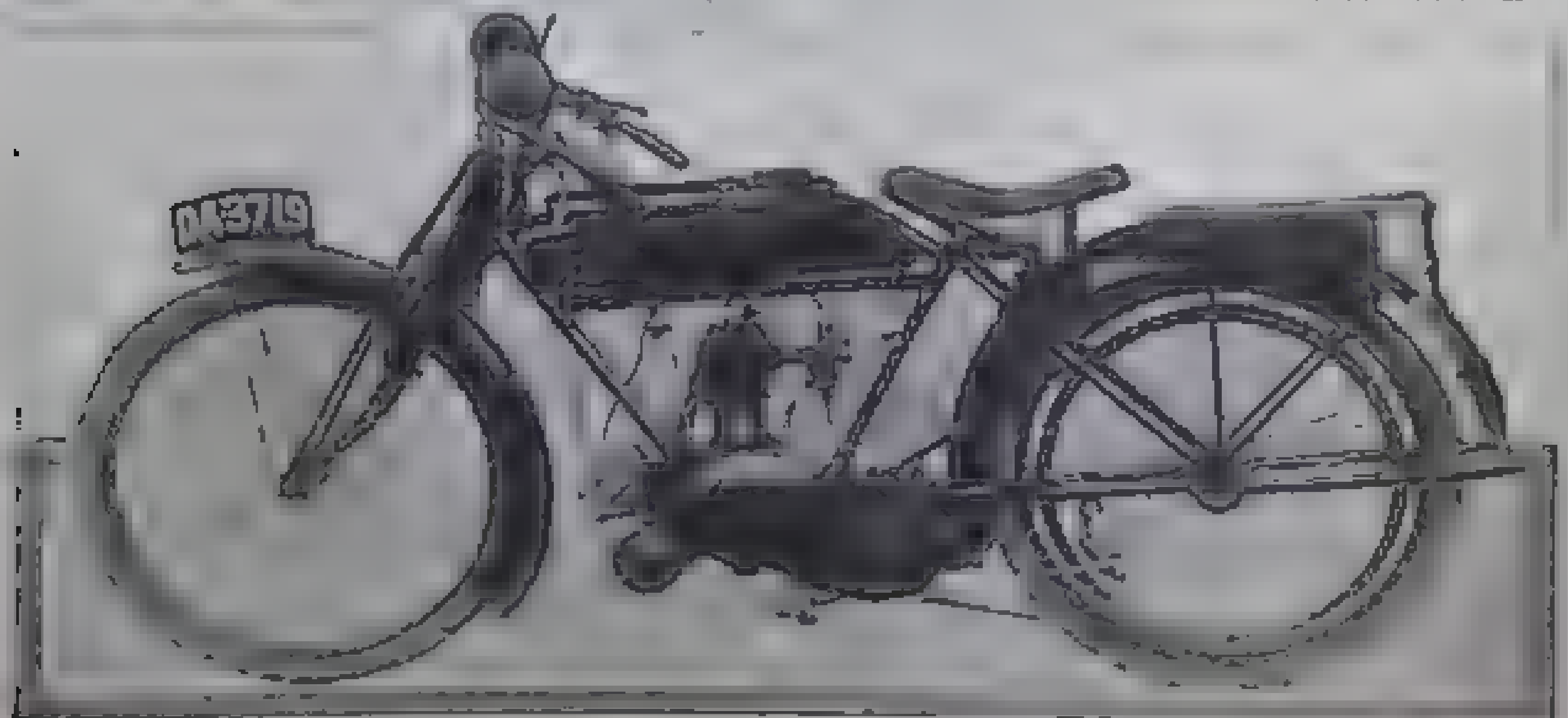
to elementary knowledge of the theory of labour-

of the use of dia-

carbon and is prepared for the use of internal-combustion engines in small, silky, scale-like formation. It is used for the purpose of providing a bearing surface, and is applied to a great extent built up and overlaid by a layer of graphite which is smoother, and consequently less friction-producing than the metal surface. Thus, in place of the metal bearing, the layer of graphite coating the bearing is worn by friction, which is never entirely absent in an internal-combustion engine. The carbon is applied in the form of a paste, usually with a heavy oil, in order to overcome friction.

[illegible]

The transmission, hubs, gearbox, etc., can also be lubricated with oil or grease mixed with graphite. Here again a more efficient lubrication results. L.S.



A newcomer, the Overdrive, which will be available early through Range Rover's dealers. It is equipped with a J.A.P. engine, Diesel fuel, and Allison or Harmon gear. The price is \$55,140. A two-stroke model is also to be marketed, fitted with a 22 hp. Volvo engine and priced at \$54,100.

KEEPING AN EYE ON RUNNING COSTS.

1997年12月

cost per rule of 100,000. And about the same for the other two. The analysis is done very quickly. It's a very simple, two-step process. We take the average price (computed in that great deal of trouble to keep a price index) and then we add on such an additional percentage as 10 or 20.

It is a columnar joint and I ask a my account book makers, preferably with a space for particulars and at least one other column. Starting from

such as the gate and a wall
for the building.

... to the column which can be to advantage for the large column. Every

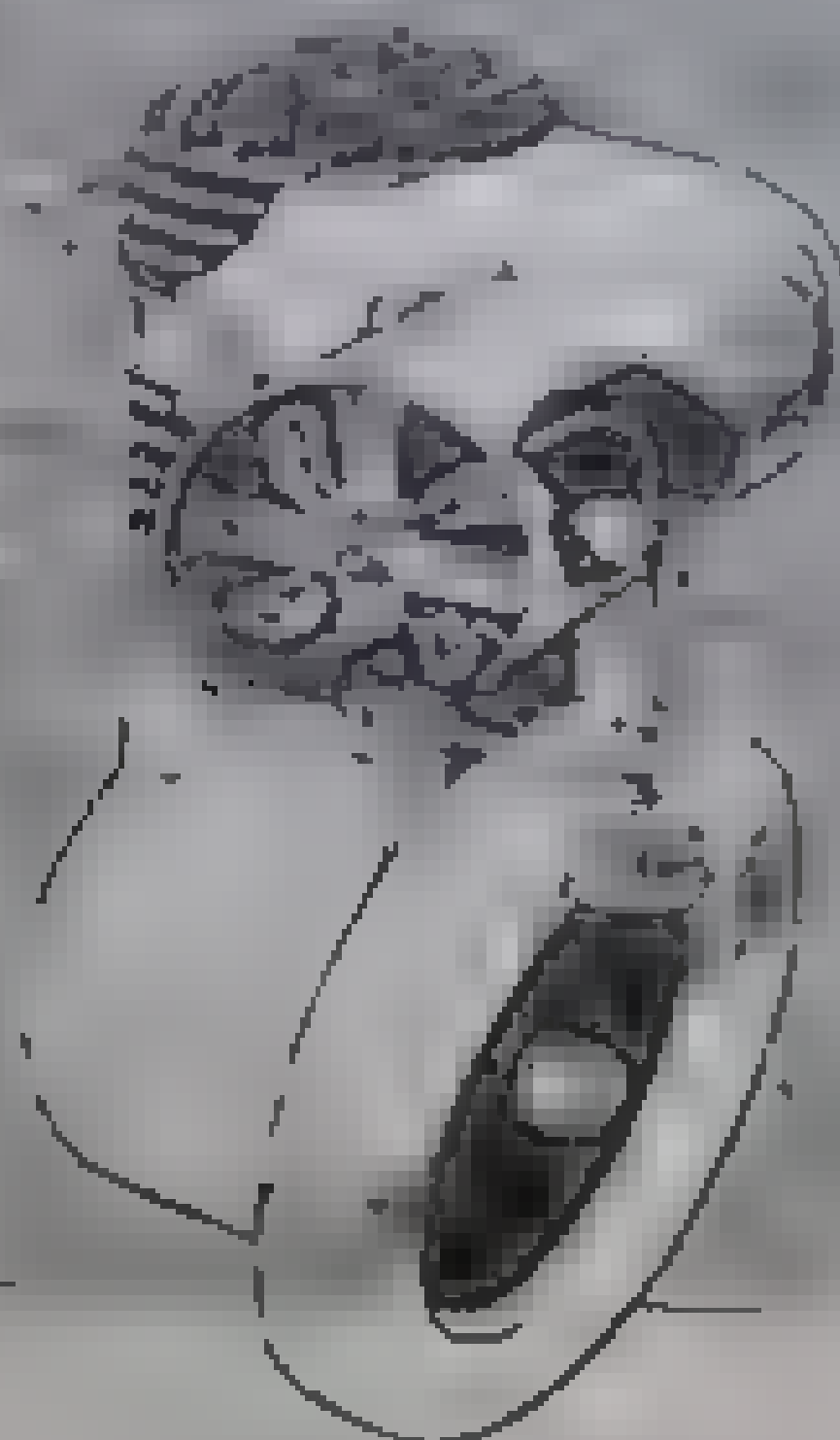
... of the relations suggest therefore
 and can be arranged to suit the rider's own
 needs and inclination. I have found the following
 the data that is required, hence in which

which is where to focus, is
corrected. The effect of control

the language and arrangement of the law.

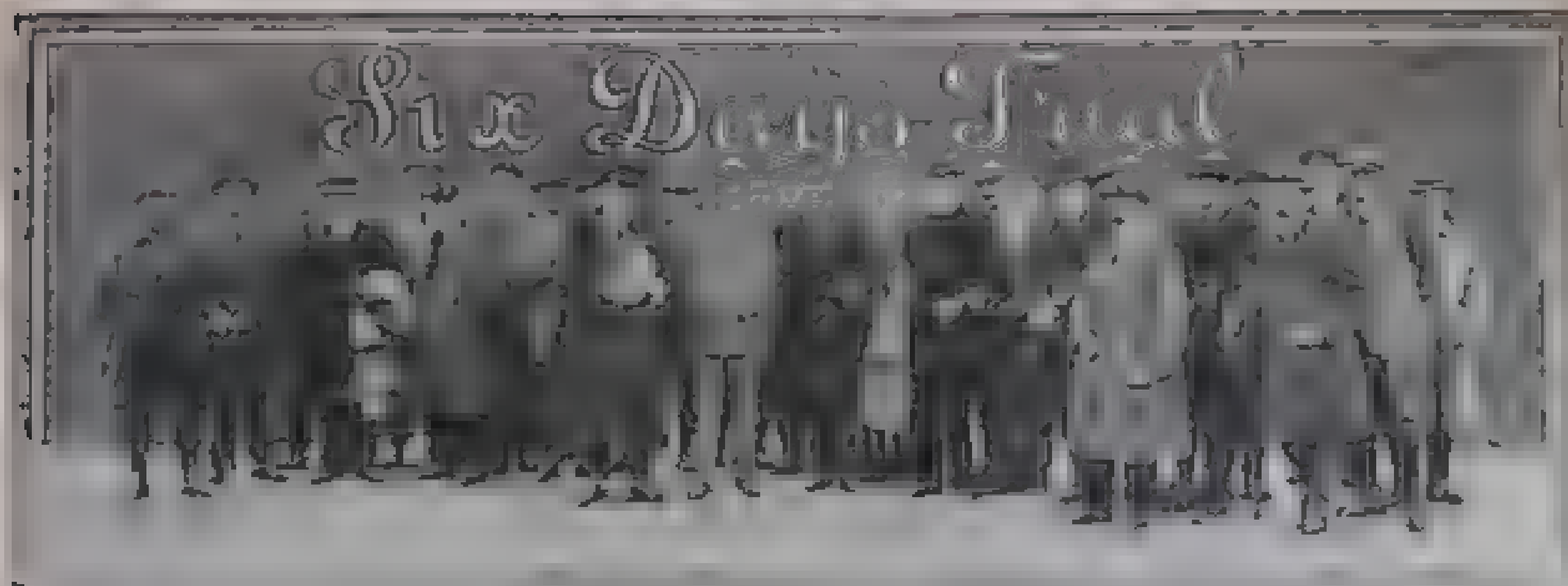
We can safely say that the potatoes on a plant, like any other food and necessities, such as the corn, are a part of the capital of the farmer. The question is not whether the potatoes are plant or not, as they materially add to the value of the machine. It is a fact that the entire cost of the article is paid for in less than a year, most not fall on the first year, but twelve months after the date on which the machine was purchased. The book should be balanced up on the cost per rule worked out for us and for those who are here every year.

TO PREVENT OVERHEATING



Q. 2. The following are the marks obtained by 10 students in a test. Find the mean marks obtained by the students.

round
The device is
Lavin with
In the
my table
front of
to
The



Index

Bad Road Surfaces Provide Severe Mechanical and Physical Tests—Complete Account of the Classic Event of the Season.

[Unloaded Page](#)

The Claret and Matchless machines are, of

Changes for the Six Days' Trial. The following changes were made in the Six Days' Trial, which was held at the Madison Square Garden, New York, on the 1st, 2nd, 3rd, 4th, 5th, and 6th of June, 1891. The changes were made on the 1st of June, and were as follows:—
W. J. Laker (Scott) having scratched. A last minute entry is W. R. Marshall (A Morgan), who is riding as No. 22. J. Laker (Scott) has been transferred to Class D, his engine being above 500 c.c., while Hall (A Morgan) comes into Class K, his engine being smaller than was announced.

The Trial will create a record for the number of Pressmen present. No fewer than three editors are using Blackburne presses—two at his machines and one a Blackburne-engined *Motor Cycles* for the *Scottish Sun*.

While the competitors are spending Sunday afternoons exploring any local holes where they are sure to catch. There is not much "wind up" regarding the severity of the hole, but many express doubt as to their capability of doing well in the Consistent Diving Test, which

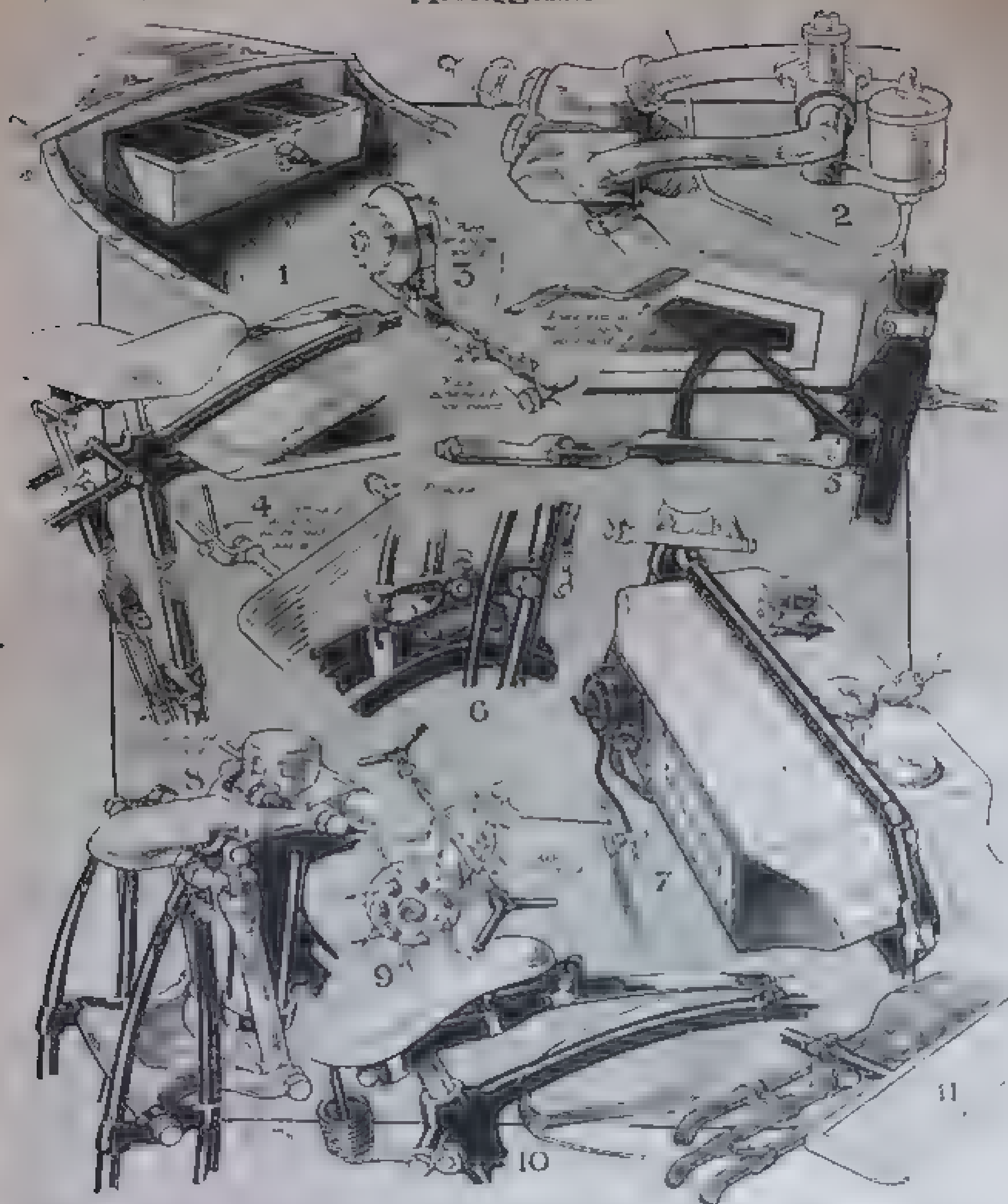
"At present we are not aware of any instances and have no way of knowing if they will deposit. Concerning the question of whether or not they are actually due out of the country, we are very doubtful. We intend to prevent any officials who become dissatisfied with the depot."

The trial has not produced as much interest as might be expected. Among the most conspicuous changes are the new Royal Enfield 350 cc. engine, with the Lucas tung dynamo, the switch which is mounted on the front of the tank. The petrol tank is of exceptional width and is mounted low, having a capacity of nearly three gallons. The engine is a new design, but designed, like a substantial number of other models, to run on oil, and operated by bowditch. The engine is carried in a compact drawer divided into compartments and fitted in the front of the sidecar.

The rollers on the ends of the shafts are made of cast iron. The bolts are made of steel. The rollers are made of cast iron and are lubricated with oil. The rollers are made of cast iron and are lubricated with oil. The rollers are made of cast iron and are lubricated with oil.

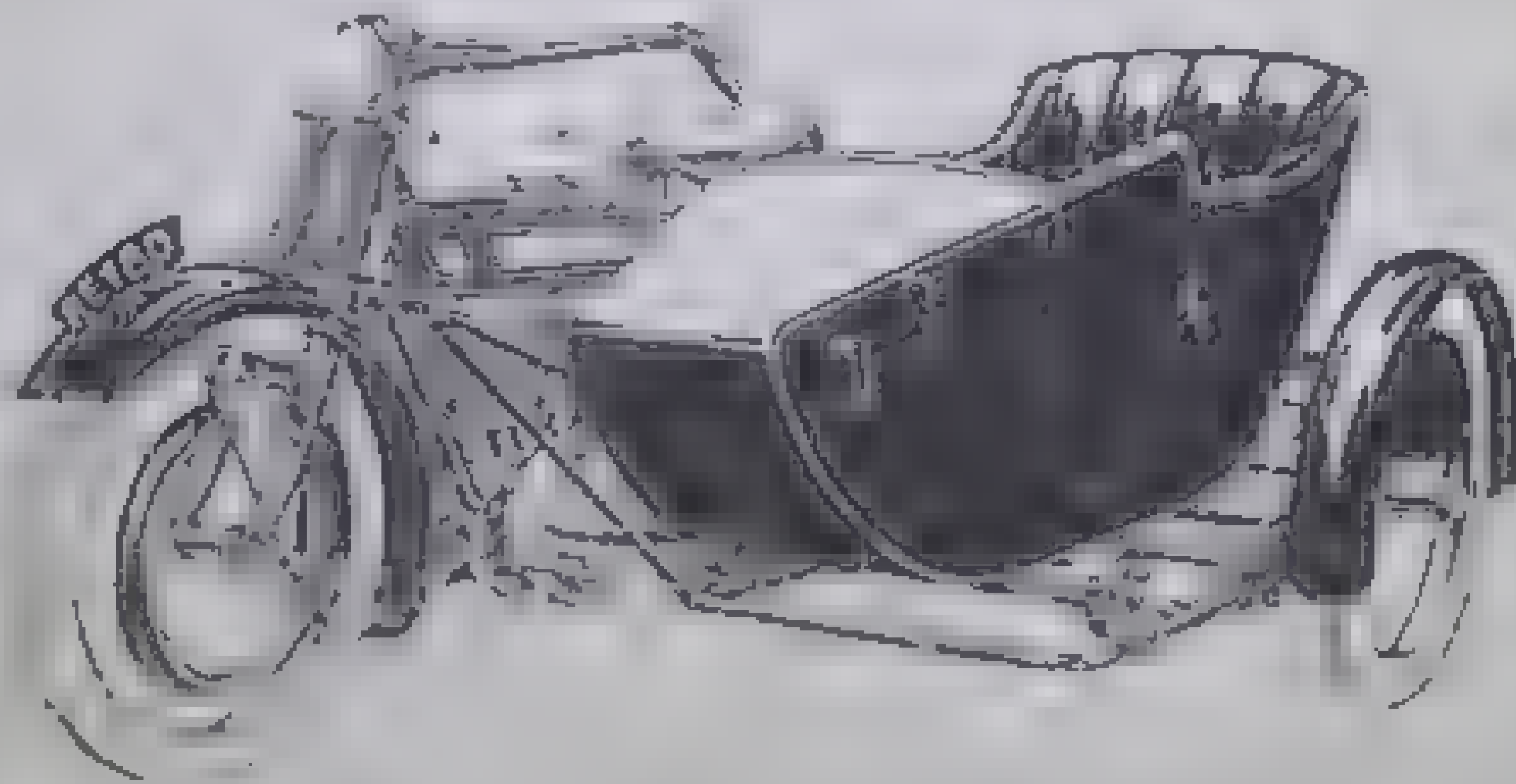


Mr. T. W. Loughborough and Major F. A. ... standing below the novel ... was used ...



NEW MECHANICAL DETAILS SEEN ON MACHINE STARTING TRIAL IN THE SIX DAYS TRIAL.

1. Front fork and handlebars. 2. Engine. 3. Transmission. 4. Rear wheel. 5. Rear brake. 6. Front brake. 7. Front fork. 8. Front wheel. 9. Front brake. 10. Front wheel. 11. Front wheel.



Strength.

It is essential that a sidecar combination should be strong. It should be capable of carrying the loads to which it is subjected without danger. Being a "family" outfit there is occasionally a desire to take an extra passenger or a need for more luggage.

How good it is to be quite sure that your machine will carry that extra weight without incurring trouble!

And that is why riders of the 6 h.p. Royal Enfield Sidecar Combination are so pleased with their outfit—they know the ample margin of strength provided, and the more they ride the greater becomes their confidence and appreciation.

The ENFIELD CYCLE CO., LTD. . . REDDITCH.
 And 48, Holborn Viaduct—London, E.C.1.



G. E. Stodart (5.6 h p. James and son) at the top of Pont Gress. (Second day.)

Summer was not badly injured, but his machine was smashed and he derived slight consolation from the fact that he had smashed the front axle of the Ford.

The first day's run (95 miles) has been remarkably easy for an A.C.C. event, and the majority regard it as a "joy ride." Very few three-speed machines have been on bottom gear at all, and the 40-mile run here after dark from Abergavenny was a top-gear affair for most.

The first part of the hill for the consistent driver test. It rises from 300 ft. to 1,000 ft. in two miles—a fairly uniform ascent averaging 1 in 12, with here and there a grade not steeper than about 1 in 10.

10 m.p.h., and the second at 15 m.p.h. to 18 m.p.h., according to the class they were entered in.

There have been a good many complaints about this test. In the first place it is pointed out that the same performance on Friday

car drivers intended to get their passengers to time them over the two sections by stop watch, so that they would know what time they had to take on the second attempt. But, unfortunately, several of the watches stopped, and the commencement of the slow and fast sections was not at all clearly indicated. For instance the first indicator after the "fast" section was the "slow" section.

Many did not realize how slow it was.

At the end of the road was the "slow" section. "Norman" thought this was the start of the slow climb, whereas it was the start of the fast.

Considering the comparatively easy gradient, it is surprising that anyone failed. Amongst the failures were the L.M.C. and Dancer (Sunderland), who were the last to go. He was looking at his watch, and had lost his way.

The descent from the top was somewhat easy, but very easy going compared with a lot of the best roads. After Llangynidr, the only other hill of any importance was tackled. It has a very steep descent.

The "fast" section was a "corner" in fact for most machines, but the test was more severe for two-speed machines which had performed a lot of low gear work. The views near the top of the event riding country were magnificent. On the first corner Ray Don (Zenith) was hindered by some child's cart. Later on, his petrol ran out of its own accord and he again stopped. The Hendersons failed, much to our surprise.

It was then easy going to Abergavenny, where a halt was made for an hour and a half for a welcome tea. The last man was due to leave here on the road to run home at 7 o'clock, and a lamp had to be lit. This section has been referred to as "the last test," though what the test was no one had noticed.

difficulty was experienced in advancing on the road, for the road was very dark. The Hendersons were the first to go, and the last to go.

It was observed to stop and tonight last night had gone out, but otherwise the night was very well covered, the arrows being illuminated by white light. The route throughout the day has been very well covered, the arrows being illuminated by white light. The route throughout the day has been very well covered, the arrows being illuminated by white light.



F. W. Applebee (4 1/2 h p. B.S.A.) near Llandovery.



MR LUNDGREN WAS DETERMINED NOT TO BE INTERVIEWED

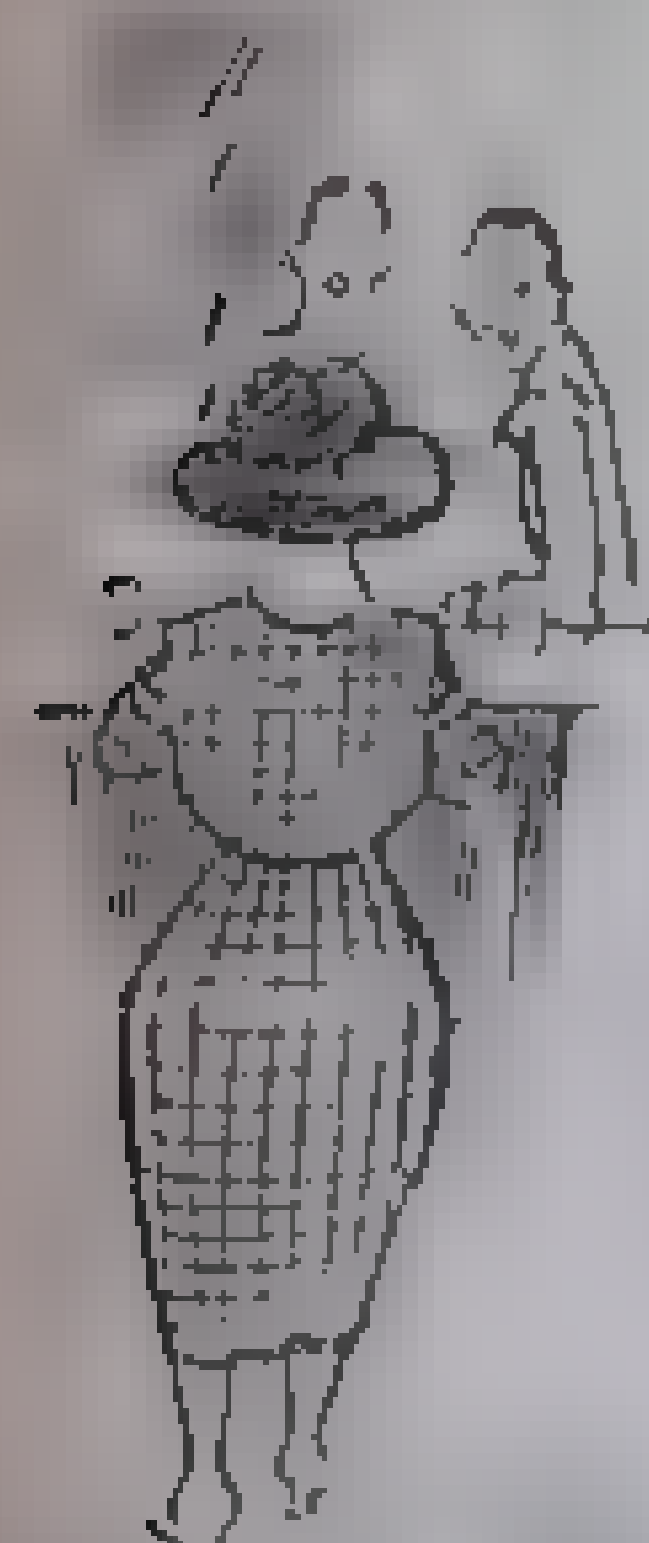
THAT MILEAGE BELOW



THE LAST SHEEP



"UNLESS YOU ARE A COMPETITOR SIR YOU MUST NOT STAND HERE"



NO DAY IN LOW BUT AT HIGH

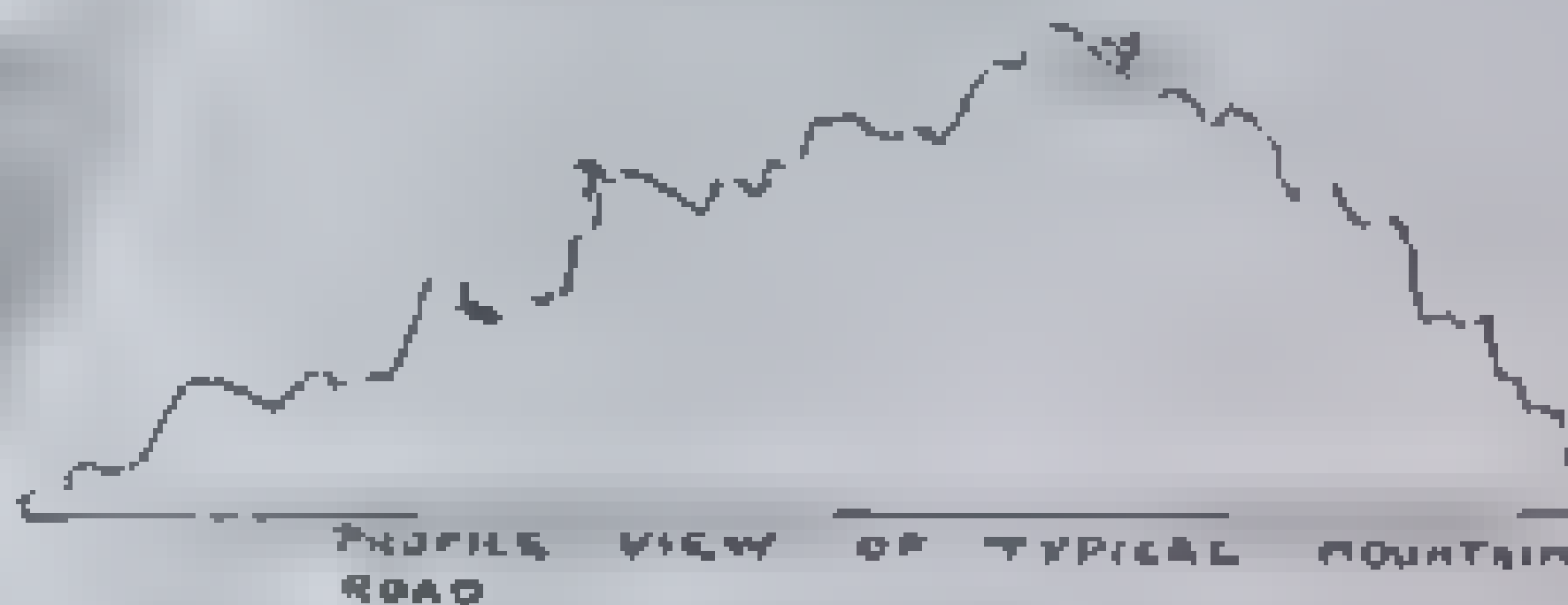


A WATER BURN THAT DIDN'T PROVE SOLE & DEN

ONE OF THE REASONS FOR THE METROPOLIS POPULARITY



HOW ONE FEELS TRYING TO MEMORISE THE CORRECT PRONUNCIATION OF YKDYTTY YSTWTH WHILST AVERAGING 18 ON A MOUNTAIN TRAIL



PROFILE VIEW OF TYPICAL MOUNTAIN ROAD



SOME OF THE COMPETITORS WERE A LITTLE SHAKEN AFTER THESDAVE RUN

Our cartoonist shares the tribulations of the 8 & 10 days competitors in the wilds of Wales

Six Days' Trial (contd.)

The test would not appear to have any purpose, as any machine which can't make a corner without running

is then called the "cornering" machine and had a

At the same time, there have been very few machines which have not been tested

At the same time, there have been very few machines which have not been tested

At the same time, there have been very few machines which have not been tested

After a few in no alarm it swept right across, followed by the corner to the left. The

After a few in no alarm it swept right across, followed by the corner to the left. The

After a few in no alarm it swept right across, followed by the corner to the left. The

After a few in no alarm it swept right across, followed by the corner to the left. The



The test would not appear to have any purpose, as any machine which can't make a corner without running

We have seen to the cornering machine, but there is no doubt that the machine which can't make a corner without running is then called the "cornering" machine and had a

At the same time, there have been very few machines which have not been tested

After a few in no alarm it swept right across, followed by the corner to the left. The

After a few in no alarm it swept right across, followed by the corner to the left. The

— DESIGN TELLS —

Results of the York and District M.C.C. s Hill Climb
at Sutton Bank The new 3 h.p.



"The World's
Best
Motor Cycle"

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FASTEST TIME


in the 500 c.c. Class.

FASTEST TIME

in the 750 c.c. Class, and

Second Fastest Time

in the 1,000 c.c. Class—beaten by 5 secs. only.

Look 

3 h.p. ABC.

1 min. 27 sec.

7 h.p.

1 min. 45 sec.

3 h.p.

1 min. 51 sec.

4 h.p.

1 min. 57 sec.

6 h.p.

2 min. 3 sec.

5 h.p.

2 min. 37 sec.

PRICE

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convey anything to you?

the ABC

is the answer

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Sopwith

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What the AUTO-CYCLE UNION'S

It is an event of vital importance. It is not a race, but in a sense the general efficiency of the machine to the public is determined.

ANY machine which does not successfully pass the trial is without value. The trial is a test of the machine's efficiency. Any form of machine, or accessories, is bound to be revealed in this trial.

THE Auto Cycle Union, as the controlling body for motorcycling competitions, organizes the Six Days Trial; making all regulations, selecting the route and determining the awards. The Trial has been held annually (with the exception of the war period) since 1903. It is more than can be calculated to improve the motorcycle and to

Y... imposed, and the gradual elimination of weaknesses and limitations in every class of machine is practical proof of the value of the Trial.

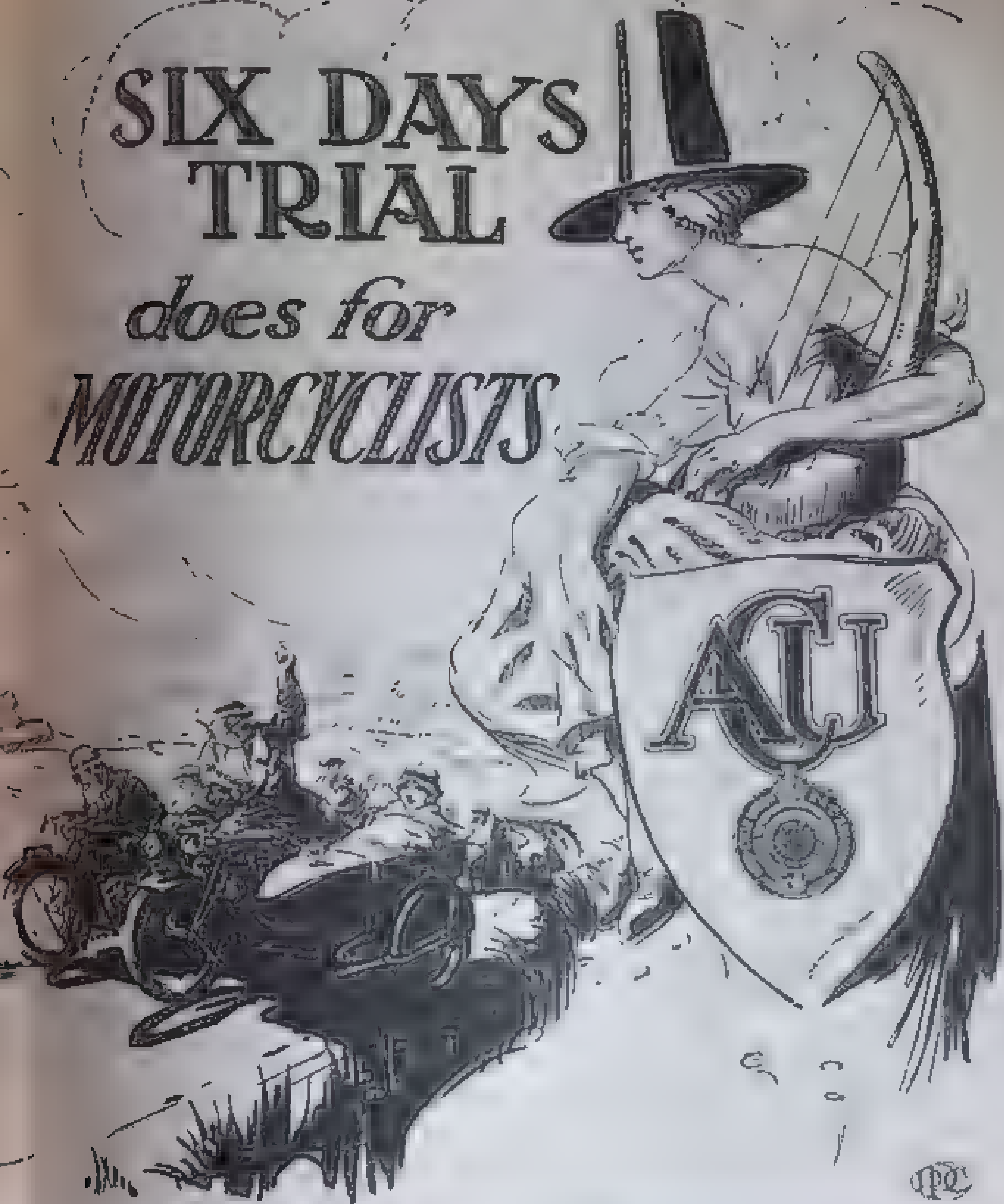
TODAY, with the great revival and extension of motorcycling that peace has brought, there is more need for the A.C.U. Six Days Trial than ever. The motorcycle is still capable of much improvement. The new tests imposed in this year's Trial indicate the directions in which the Union is assisting the trade to improve the machines that will be offered to the public next season.

If you would like to know more of the Institution which safeguards and advances all your motorcycling interests, write to—

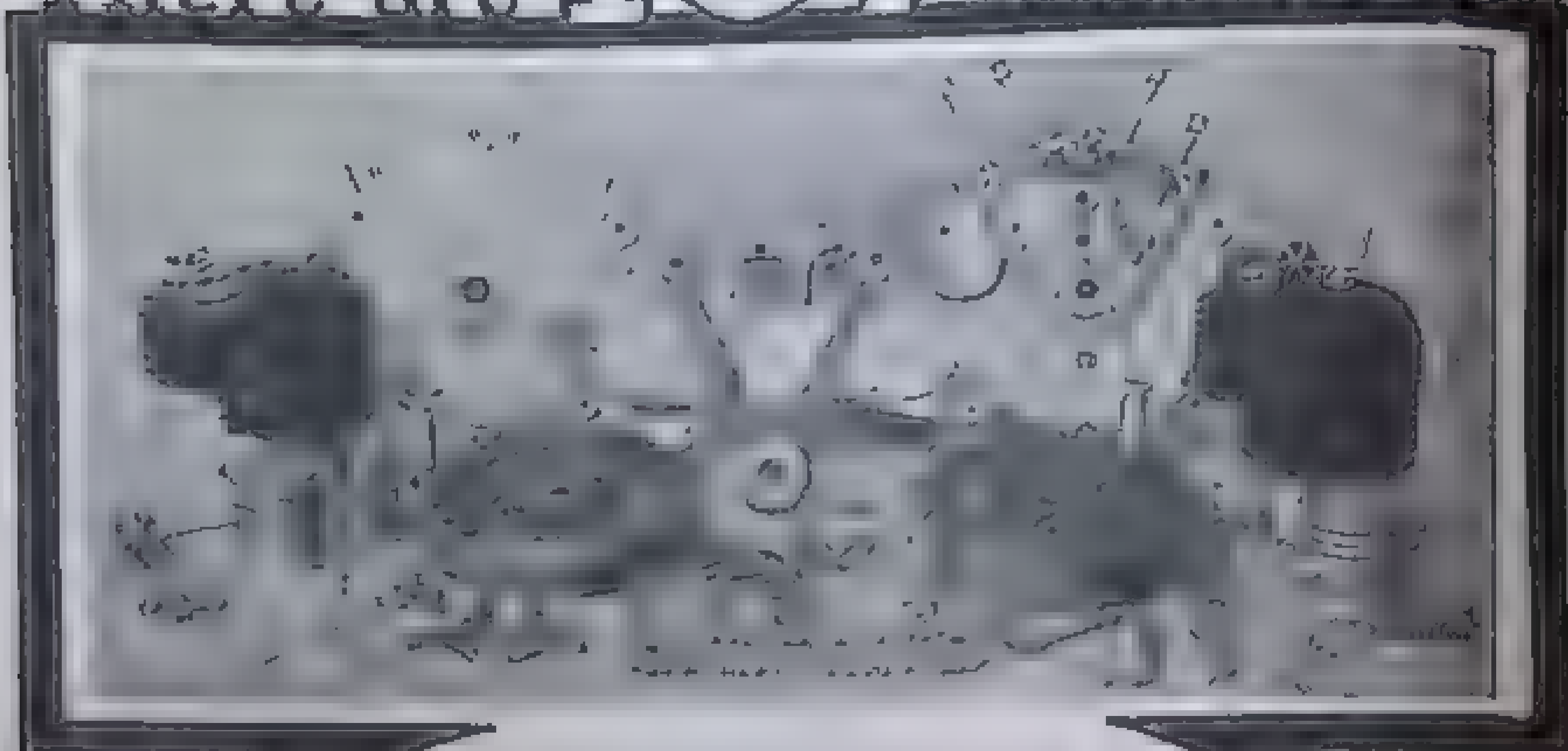
THE SECRETARY, AUTO-CYCLE UNION,
83, Pall Mall ————— London, S.W.1.

SIX DAYS TRIAL

does for
MOTORCYCLISTS

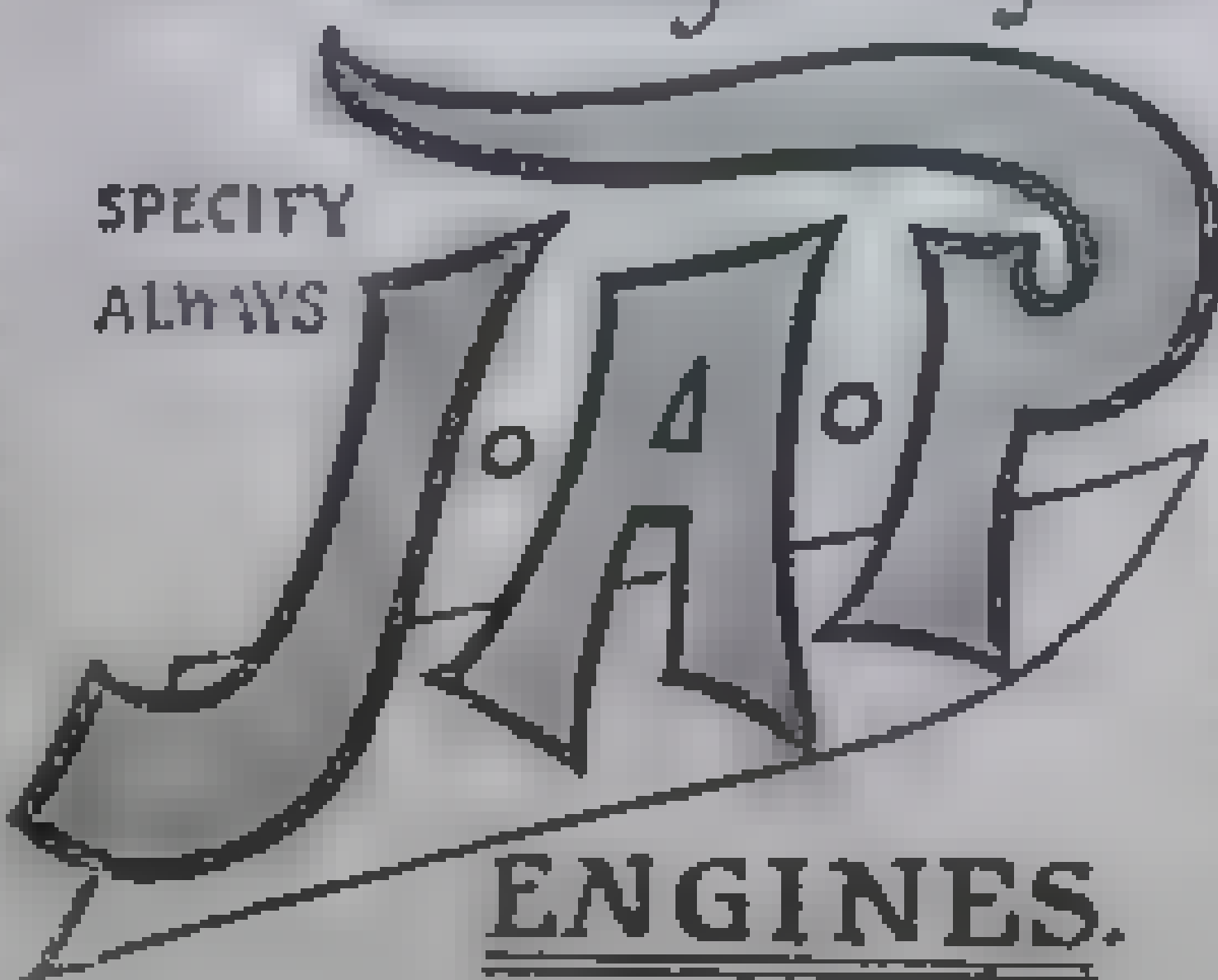


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...the most perfect

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Descriptive
Booklet of
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- 4, 5, 6, 8 h.p. Twin
- 6 h.p., 10 h.p. 4 in. or
- We are licensed
- 11.9 h.p. Four-cylinder



The above results show that the proposed algorithm can be used to solve the problem of finding the minimum cost path in a network. The algorithm is simple and efficient, and it can be used to solve a wide range of problems.

and on exactly effect, it was and themselves little chance of
The snow was magnificent, but it be-
timate to keep their eyes on the road
as the water was a sheer drop of 1
At the last long step Dr. Lowiston
carefully measuring the amount of petrol put into
a tank. The campers did not know he had

of the examinations were very good.

Leaving Bala after lunch the road led over a steep and rocky pass crossed by a small stream. The road made severe going for the horses and the horses were very tired when the Glanwedlyn was reached. The horses were very tired and kept good for the remainder of the journey. Just inside Bala we saw Mr. Reynolds' note, and I presume he had a good bag, since it was very easy to get 10 mins. ahead of time.

1. *Introduction*
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 3. *Results*
 4. *Discussion*
 5. *Conclusion*
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A throttle wire on one of the '45's had the free end
 mind to seize his cables with one hand and
 with the other. He eventually changed over
 the throttle and air valves and fired his machine
 gun.

The following table shows the balance of the

There is a great deal of talk about the "new" and "old" media. The "new" media, it is said, are the Internet, e-mail, and other digital technologies. The "old" media are the print press, radio, and television. But what if we think of the "new" media as the media of the future, and the "old" media as the media of the past? Then we can see that the "new" media are not new at all. They are simply the media of the future, and the "old" media are the media of the past. The "new" media are the media of the future, and the "old" media are the media of the past.

at an estimated stretch through the
schedule of only 15 minutes. It was
was so no one could think
it and the surface was not

In Inspector and Tugator
A beautiful village. After that,
the same hill that was included in Tugator
at it again caused little trouble. A
is served at the Hafeu Anna Hotel in
bridge. Here we found Dr. Low once to
Harry checking petrol consumption. It appeared that
Chuck Davis (Clinter Low) had been in trouble with
and the Harry Mendon. But a device
was rapidly cracking up, as a result of the
steep hill and bad luck, having four
passengers, and in endeavoring to make up time. The
damage was done. Finally finished to see a
fight with his . . . , doing as best
to keep the apart!

After lunch we started on our way to Machhabath. A narrow road led us up a steep hill, the contour being up a mountain side, although knowledge of the country had been forgotten. It was a steep climb, and according to the map we were to reach the top in seven miles. Actually the road was undulating. Then follows a short steep climb to the observed hill. As a result the hill—or mountain track—had not started. The four miles traversed a wonderful road country. The road was a narrow, steep, and in places a very rough one.

Approximately the first 600, including the inner
little layer, made clean prints. By then I
over the place was becoming cut up and
the chub most unpleasant. This
also caused quite a number



An example of surfaces on the mountain tracks.
Morris Isaac, Rover, winner of the Principality
Prize.

5. Days That count

... went to Stay Little and
we found H. Farley (A B C)
range means he could have been
at the

The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1.1) as $\epsilon \rightarrow 0$. In the second part, we study the asymptotic behavior of the solutions of the system (1.1) as $\epsilon \rightarrow 0$ and $\lambda \rightarrow 0$. In the third part, we study the asymptotic behavior of the solutions of the system (1.1) as $\epsilon \rightarrow 0$ and $\lambda \rightarrow 0$.

11. *about Wells, Friday Night*

And, as far as mileage is concerned, it is not, as a rule, a few who are not thankful. This is a very easy, but the final 90 miles that undoubtedly been the worst in the trip. In our opinion, the only sporting

[illegible]

6. Brown (Zeph) thinks discretion the better part of valour in dealing with water-splashes in the future.



A. E. Wood (USA) on Cano Hill (Friday), the difficulties of which had been much exaggerated.

The weather became very trying, there being a high
 about 100° at 10 A.M. and about 105° at 1 P.M. The

finding them the climb owing to too rough and icy surface. Going down the hill we found Fokulapp (Bla Klamm) again in trouble with his throat's wound. A slight detour was made through North to Merrells, and we landed up at Swansen for an early lunch at 11:30 a.m.

telling everyone to get up to learn about it. The first event after noon was to be the ascent of Constitution. There was a concern about the severity of the climb, but the difficulty of the job had been exaggerated. It was found to be 1 in 3 at the worst part, the car a large ladder and a rough ascent of rope. It was never very tricky.

by now we had to go back
a cobbled street, it sloping
and with dense crowds, not
y on each side, on the walls and chimney pots.
I got over the road as well. It was unfortunately
impossible to provide sufficient umbrellas and al-
though the papers did look lovely, many reporters were
literally held up there. There was through the crowd,

Let \mathcal{A} be a subalgebra of \mathcal{B} . Then \mathcal{A} is a σ -subalgebra of \mathcal{B} if and only if \mathcal{A} is closed under countable intersections. If \mathcal{A} is a σ -subalgebra of \mathcal{B} , then \mathcal{A} is a σ -algebra if and only if \mathcal{A} is closed under countable unions. If \mathcal{A} is a σ -subalgebra of \mathcal{B} , then \mathcal{A} is a σ -algebra if and only if \mathcal{A} is closed under countable intersections and countable unions.

start off for a very
but for the rest 30 miles
and Liu shouze to I transferred
Here the far com-
section" over the
next five miles to
second and third of

On July 2nd suddenly
 flames shot up from the
 house and I took the water on
 my back and ran to the
 well. The fire was so bad
 that I had to stop twice
 before I reached the well.
 The first time I went over
 the fence and saw the
 flames were so close to me
 that I could feel the heat.
 The second time I went
 over the fence and saw
 the flames were so close to
 me that I could feel the heat.



How well the H.S.A. car is able to handle the rough road car
 it is not to be seen from the picture.

apparently nearly down, I
 did not know of this. I was
 used a car dry and a high-toned
 the motor cylinders, a strong
 much trouble. One of the
 the motor is strong, but a
 lot about its surface and
 of its thought. I had to get all the
 road.

I was not
 I was not
 I was not
 I was not
 I was not
 I was not

the ground, which had been scraped
 the ground, which had been scraped

of luck. (So early on the
 a motor driver stopped

neither of whom noticed it. Motor Cycling, as
 was on the spot, but as our duty does not consist of
 a tale, the competitor was officially given a
 (reassured).

To add to the complications some young rascals
 had placed a board in the middle of the road
 vertical rail project up. Everyone was
 of a hurry trying to maintain schedule to
 chasing the offenders, however. Several
 squashes occurred on this section. An Ariel rider
 skidded and turned right round, colliding with
 Douglas Alexander's (Enfield ac) held foot and
 magnets, causing a bump to the former and badly
 repairs to the latter.

Eventually good roads were reached again, and



Coastguard Hill, looking down, with the sea in the background.
 T. Peck (Ariel), and L. L. Sealey (H.S.A.) were present.

September 24, 1919

MOTOR GELING



A group of people standing in front of a large building, possibly a school or office building.



Looking up Constitution Hill, Sweden, showing the view through which competitors had to thread their way.

The first of the three photographs shows a group of people standing in front of a large building. The second photograph shows a group of people standing in a line. The third photograph shows a view of Constitution Hill in Sweden, which was the course for the competitors.



The Auto Glider at Sutton Bank (York)

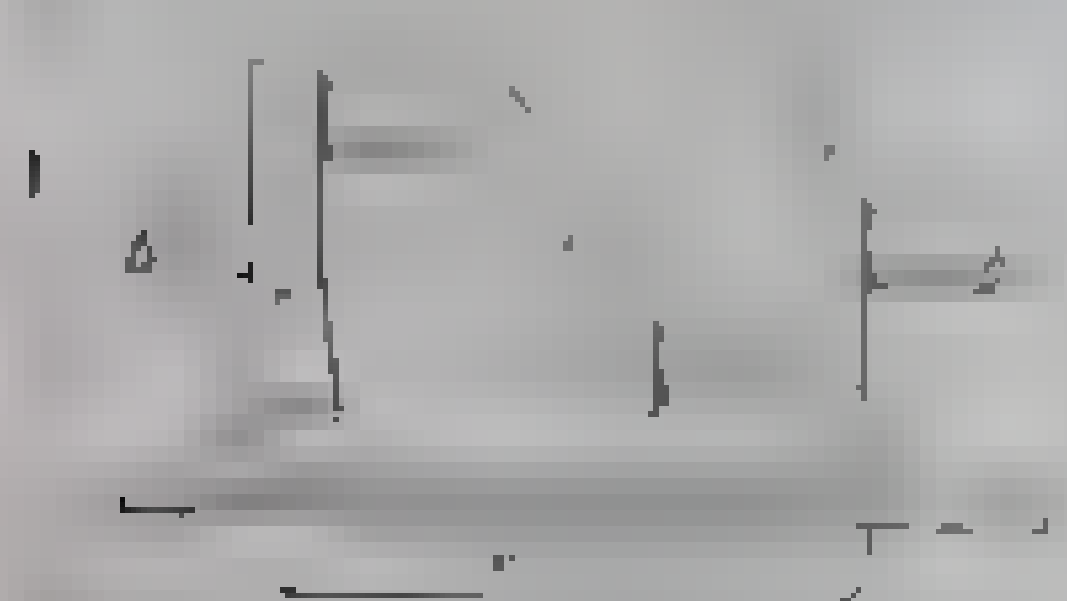
M.C. in Lombard. It was shown as last

THE ASPDEN AUTOSCOOT

An Unusual Ignition System.

Y

the frame is of
by form a
but also includes the in
multipurpose, permit to
or, between. At the
also a running screw
engine. Thus it will be
under is particularly well



the engine is a 170 cc. 2
is fitted with a
which is cast with the
in the cylinder is fitted
transmission, of course, is
each being taken up by
crank pin. The wheels are of alloy
diameter, and have 20 in. by 2 1/2 in.
gears. Two lights are incorporated
hand operated, on the rear wheel, and
operated on

and is controlled by a grip. The front
is adjusted to the vehicle. The
front and the rear
rear gives a good
when a maximum speed is
obtained.

The front light on system is most in
and will be of very good con-
dition and entirely dispenses with the
a would prefer

engine and put
the shaft back
in other parts
the crankshaft

because the
and the front
gear

and can be
provided

assumed, and is

ed by the design of the engine, and
allowing the engine to be employed, and
the tank has a capacity of 100

It is a design
it is provided

or to Mr. R. L. Aspden of the
Road Carley.



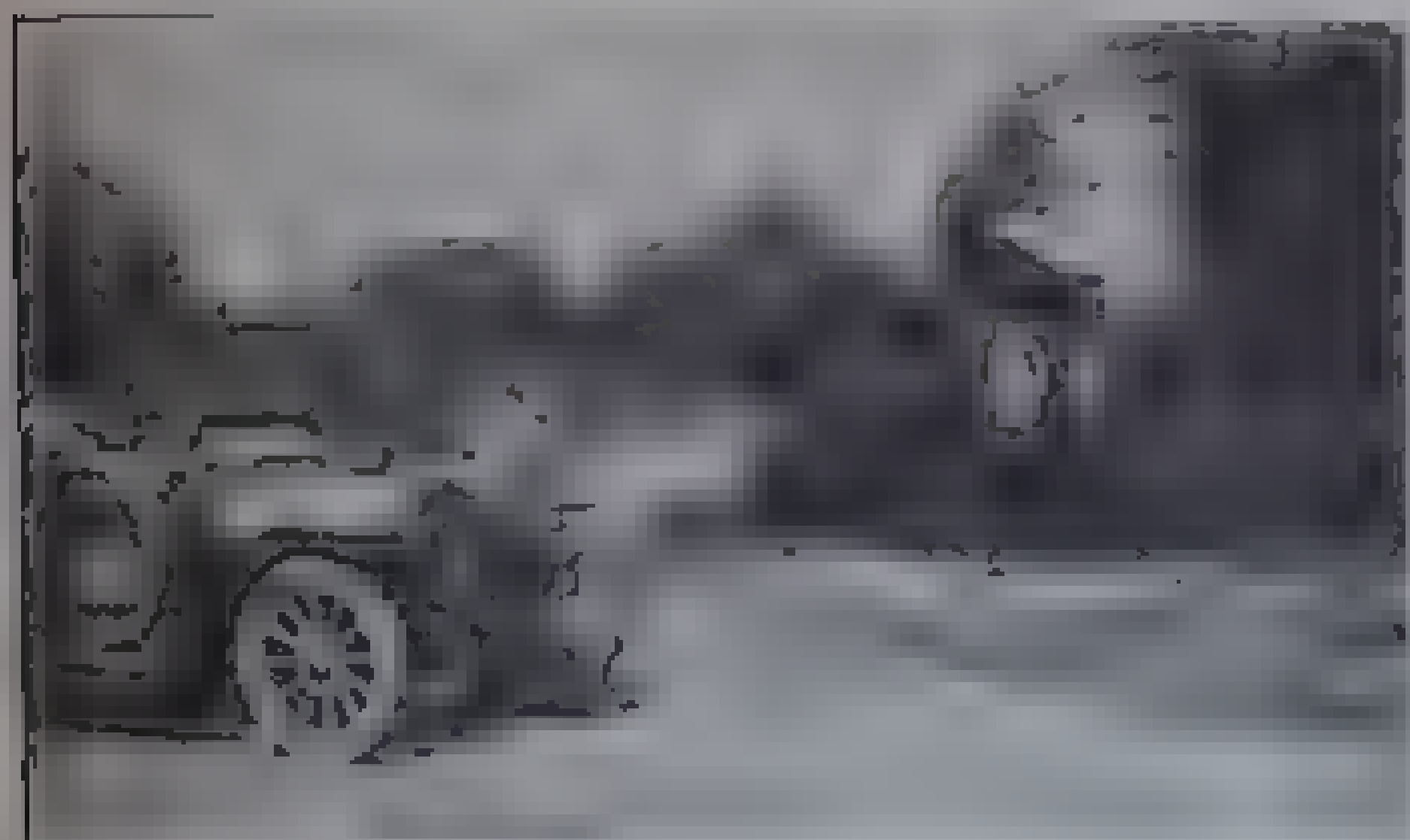
The Motor Cycle and the Autoscoot are shown in the
and the Autoscoot is shown in the
version. They will be shown in the
in the issue of the 1st of March.



Crossing the t's.

How the A.A. is extending
well-known facilities.

The Automobile Association places no reliance on the proverb, "Leave well alone," in connection with its road service for members. Having successfully organised



and provided a new benefit, the Association is not content to maintain it at the original level, but all the time endeavours to go one better.

The present season has seen marked activity in the Association's policy of progress, as is evidenced by the following 1919 Service refinements:—

Road Patrol Scheme. "Mechanical First-Aid" Cycles fitted with side-carrying spares and tools necessary for light repairs to cars or motorcycles have been added.

Roadside Telephones. All the A.A. sentry boxes are being adapted for a 24-hour telephone service, and every member will be given a key which will enable him to use any of the instruments at any hour of the day or night.

Free Legal Defence. This benefit now covers free Legal Representation in civil cases by the Association's solicitors in all approved circumstances from the sale, purchase or lease of privately owned motor cars or motorcycles.

Foreign Touring Assistance. Members of the Association can now take their cars into a 70 per cent. tariff country on a banker's indemnity alone and without depositing hundreds of pounds in customs dues.

Branch Offices. New offices have been opened at Oxford, Cambridge and Brighton, where members, whilst *en route*, can obtain road information.

Motor Fuel. The Association has commenced 10,000 and 5,000 miles road tests of "National" benzole, on a Sunbeam car and a Triumph motorcycle, in order to prove once and for all that benzole of good quality is completely satisfactory as a motor fuel.

Complete information as to the objects of the Automobile Association and the many privileges it extends to members, is contained in a new edition of "The Key to the Open Road," a copy of which can be obtained, post free, from the Secretary, A.A. & M.U., 3 Finsbury House, Whitecomb Street, London, E.C.2. Send a postcard to-day. Motorists in London who wish to join the Association without delay are invited to call at Headquarters, where a staff of experts is always in attendance ready to give information on any matter relating to motorism.

INTERIM NOTICE TO MEMBERS

THE AUTOMOBILE ASSOCIATION is watching closely the formation of the MOTOR AGENTS' UNION which conceivably may affect adversely the interests of the Motor User and Consumer.

The Secretary will be glad to discuss with members any particular case or cases of disadvantage to the Motorist.

STENSON & CO. LTD.

THE AUTOMOBILE ASSOCIATION
11, BEDFORD SQUARE, LONDON, W.1.

Speed and Reliability.

Birmingham Motorcycle Club's Hill Climb, August 23rd.
SUNBEAMS made

1. Fastest time of the day
2. Best performance in the race
3. Fastest sidecar ascent.
4. Best performance in the stopping and restarting test.

Weyton-super-Mare Speed Trial, August 30th.

A 3½ h.p. SUNBEAM made fastest time of the day and won both the 3½ h.p. and unlimited Classes

Redditch and District Open Reliability Trial, August 23rd.

3½ h.p. SUNBEAM and Sidecar B.S.A. CUP.
 SUNBEAM TEAM ENFIELD CUP.

For Speed and Reliability under all conditions you cannot beat the SUNBEAM.

JOHN MARSTON, LTD. 9, SUNBEAM AND, WOLVERHAMPTON.
 LONDON &

THE LODGE

SPARKING PLUG

is so designed and constructed that it will continue to fire satisfactorily despite considerable excess of soot or oil.

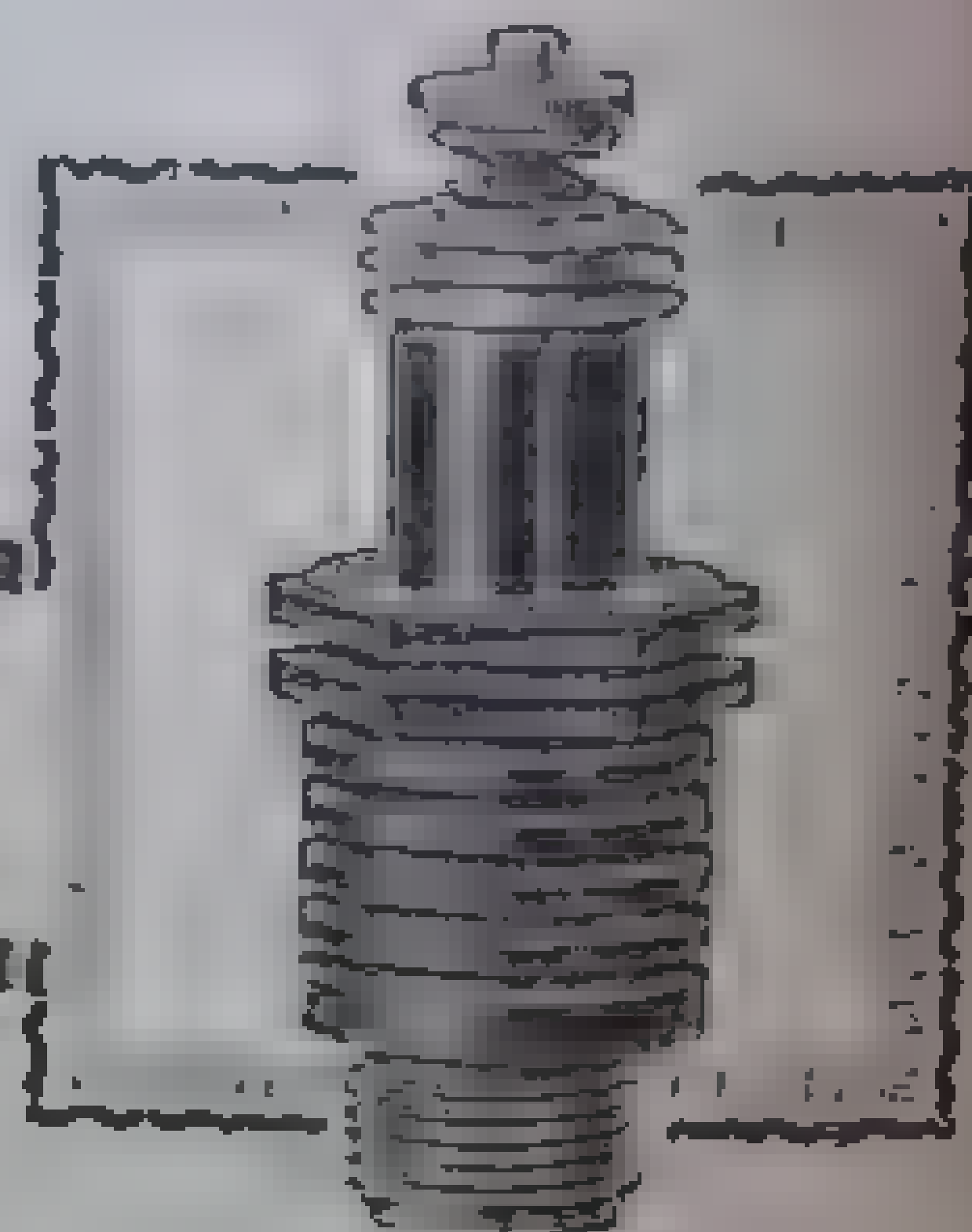
The Plug pre-eminent

For Power and Endurance

"If you have used it you will have found it so."

Of all high-class motor accessory dealers

THE LODGE SPARKING PLUG CO., LTD., RUGBY.



M.S.L. KR3
 Price 8/6



12/3

PLEASE REFER TO "MOTOR CYCLING" WHEN CORRESPONDING WITH ADVERTISERS.



— NEWS IN BRIEF. —



1. The first step is to identify the problem or goal. This involves understanding the current situation and what needs to be achieved.

For further details, please contact:

BOOK REVIEW: *Journal of Management Education* 25(10):1139-1140

Are You Looking for a Job?

A SCOTT Baller cover engineer for really good letters at a letter must have served in either the Army. An a 1 should state length of service and 1

marked "bristol" in the top left hand corner, and enclosed in the Fiber Hat enclosure 718. The above Avenue, London, E.C., will be for sale.

Stupendous Statistics

They include such things as a
 1. ... who draw 25
 2. ... capital on
 3. ...
 4. ... the year
 5. ... vehicle
 6. ... the U.S.A. to

Collected 27 and 28 Nov. 1961 and 19 Dec. 1961 on the 1000-hour anniversary of the New York City Draft Act.

1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 26

Enter path of this subject's number passing on to other persons after the first burial, when discharged. At one period

31. $\frac{1}{2} \ln \left| \frac{x+1}{x-1} \right| + \frac{1}{2} \ln \left| \frac{x-2}{x+2} \right| + C$

**MAKING ITS DEBUT IN
THE SIX DAYS' TRIAL.**

Lighting up time for Saturday,
September 27th, 1991.

					7.43 yr
					7.57 yr
					7.72 yr
					3.5 yr (n)
7.63 yr (n)	++	+++			5.0 yr (n)
7.64 yr		++	+		7.55 yr (n)
7.65 yr			++		6.34 yr

Large steel be kept covered and I
the rest

At the age of 1 year, a 3-year-old girl
now goes to school.

29. *See* e.g., *Am. Petroleum Inst. v. Am. Petroleum*

That £4 (1997-1999)

Only, is tempted to ask how much of the \$900,000 aid it has been granted to the local

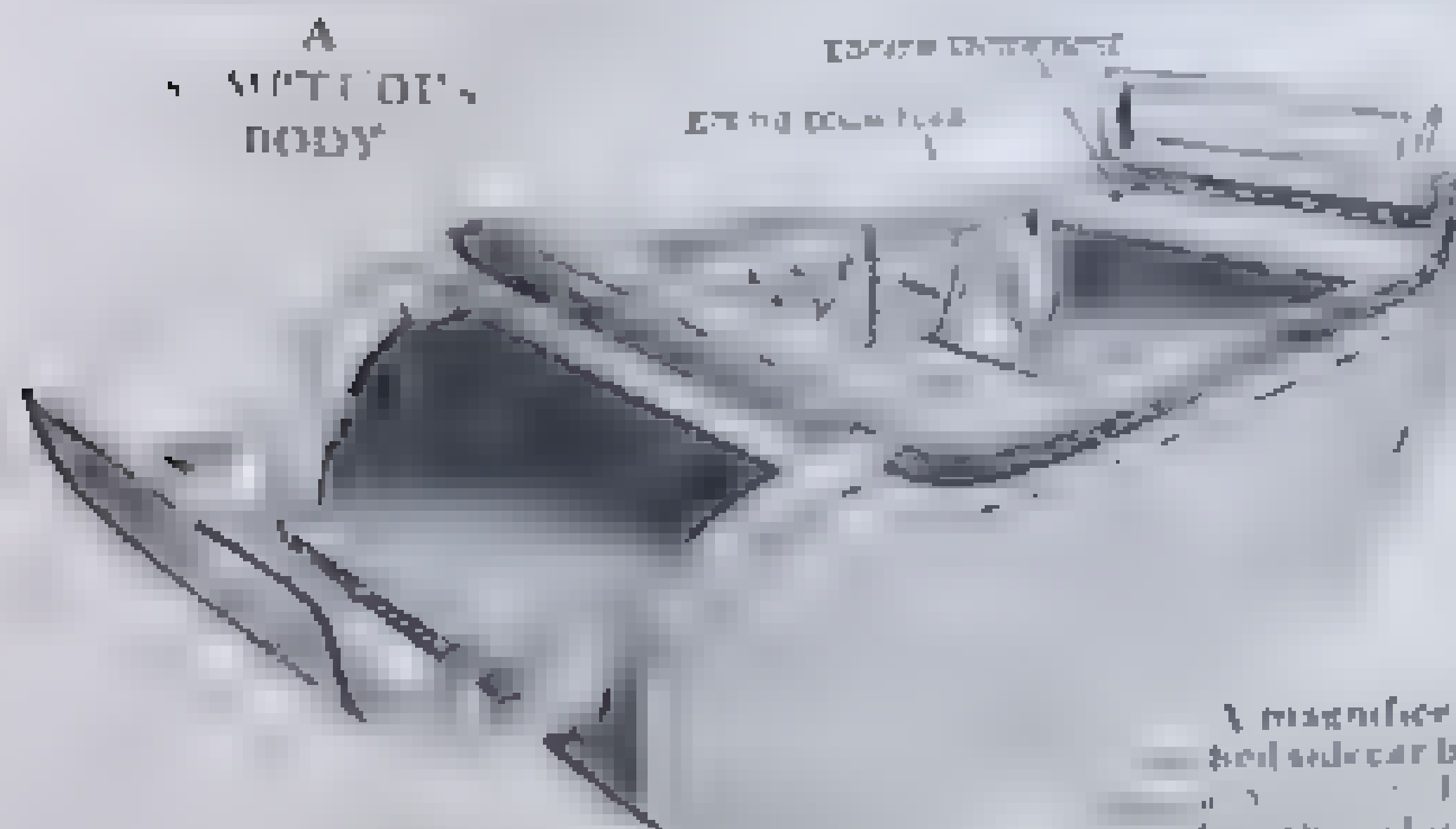
ing a portion of the amount expended
by motorists in the shape of petrol tax
which has been accumulating since 1911 will be
devoted to the resurfacing of road surfaces and it not
from taxing operations. In several districts lately we
have noticed that work has been limited to top dress-
ings of tar, although in such case the surface has been
very poor under road traffic. After 15 March 1914
we have received a short 1000000 when it was found
the new department under the name of Tar Bri-
cques had been

It is not acting for the benefit of

SHALL WE
SEE A LEVIN
SCOTTER?

[illegible]

The Essex Club's Gymkhana—An Interesting Lecture Course.



A magnificently
red motor car body
for the Essex
Derbyshire Co.

The Essex Club's Gymkhana.

The Essex Club's Gymkhana, to be held at the Essex track, "King's Oak," High Beech, Loughton, on September 27th, has now been completed. The seven events in-

Round Roads

The heavy motor traffic has played havoc with the roads in the district.

The roads in the district are in a state of disrepair.

about restoration was passed unanimously at the meeting.

A number of the members of the club have been fined for driving on the roads. At Cambo M. Derbyshire, fines are also high. Two youths who were up for their first offence under the Motor Car Act were fined £2 each.

was with a vengeance. At Cambo M. Derbyshire, fines are also high. Two youths who were up for their first offence under the Motor Car Act were fined £2 each.

Essex Club Gymkhana

Talk programme for the Essex Motor Club Gymkhana, to be held at the Essex track, "King's Oak," High Beech, Loughton, on September 27th, has now been completed. The seven events include: Potato flicking (for solo machines); apple bobbing (for solo machines); "take the lion" (solo and open car machines); fishing race (cars and sidecars, lady passengers); the flag race (for cars and sidecars); and musical chairs (sidecar machines, lady passengers). Altogether 15 prizes will be distributed. Entrance, 1s per event, will close on September 23th. A start will be made punctually at 2.30 p.m., and a band will be in attendance during the afternoon. Admission will be 1s, 6d., or by ticket 1s. Tickets may be obtained from Mr. F. A. Appleton, 28, Great Portland Street, W., or Mr. P. S. Barrow, 1, Victoria Road, Loughton.

Douglas Success in South Africa.

The Douglas motor car has had another noteworthy performance in South Africa. The car, which was driven by Mr. J. H. Douglas, won the 1000 mile race, which was held at the end of the year. The car was driven by Mr. J. H. Douglas, who was a member of the Douglas Motor Club. The car was driven by Mr. J. H. Douglas, who was a member of the Douglas Motor Club. The car was driven by Mr. J. H. Douglas, who was a member of the Douglas Motor Club.

Petrol Motor Clubs

Commencing on September 1st, the petrol motor clubs are being held at the Borough Police Station, 100, Borough Road, S.E. 1.

Signs of the Times

In the near future Coventry railway station will be a busy place.

The station will be a busy place, with many people coming and going. The station will be a busy place, with many people coming and going.

numbers from most of the large manufacturers. The station will be a busy place, with many people coming and going.



A small Triumph owned by Mr. Kear and which participated in the recent Weymouth race. The sidecar and one wheel are of a different make. Note the windscreen.

The Progress of the 5,000 Miles Benzole Test—The Humber Museum.

Lack of Gauge Facilities.

Q. What is the difference between the city and the suburbs?
A. The city is the town, the center of the community, the place where the business and the government offices are located. The suburbs are the residential areas, the places where the people live. The city is the center of the community, the place where the business and the government offices are located. The suburbs are the residential areas, the places where the people live. The city is the center of the community, the place where the business and the government offices are located. The suburbs are the residential areas, the places where the people live.

The A.A. 5.010 Miles Benzole Test

THE confidence
source test has been a
recent. From
condition and the sister machine have so far
the surprising regularity of a watch. With
ception of a very wet journey from Black Sea
the test has been favoured with excellent
pool roads up to the base of writing. Pass
through Leicester, on the way to Leeds, heavy traffic
owing to the races, was encountered, and the journey
through that city occupied an hour. These are the
sort of things that test on the fuel.

that alone can bring
a solution to the
problem, however
the A. A. officials

A War Museum

CALLING at the Hammer works together, we found the space between the two lines of the pattern of the rationing tag was not the same as the space between the two lines of the rationing tag and two fine lines of the rationing tag.

stands, are reminiscent of motorcycle engine design. Another fine model of an Avco Aero 100, which is at least 6 ft. across the wings, is particularly striking. But most interesting of all are two small, dished wood panels, forming the firm's Red

Answer: Correct! Wrong!

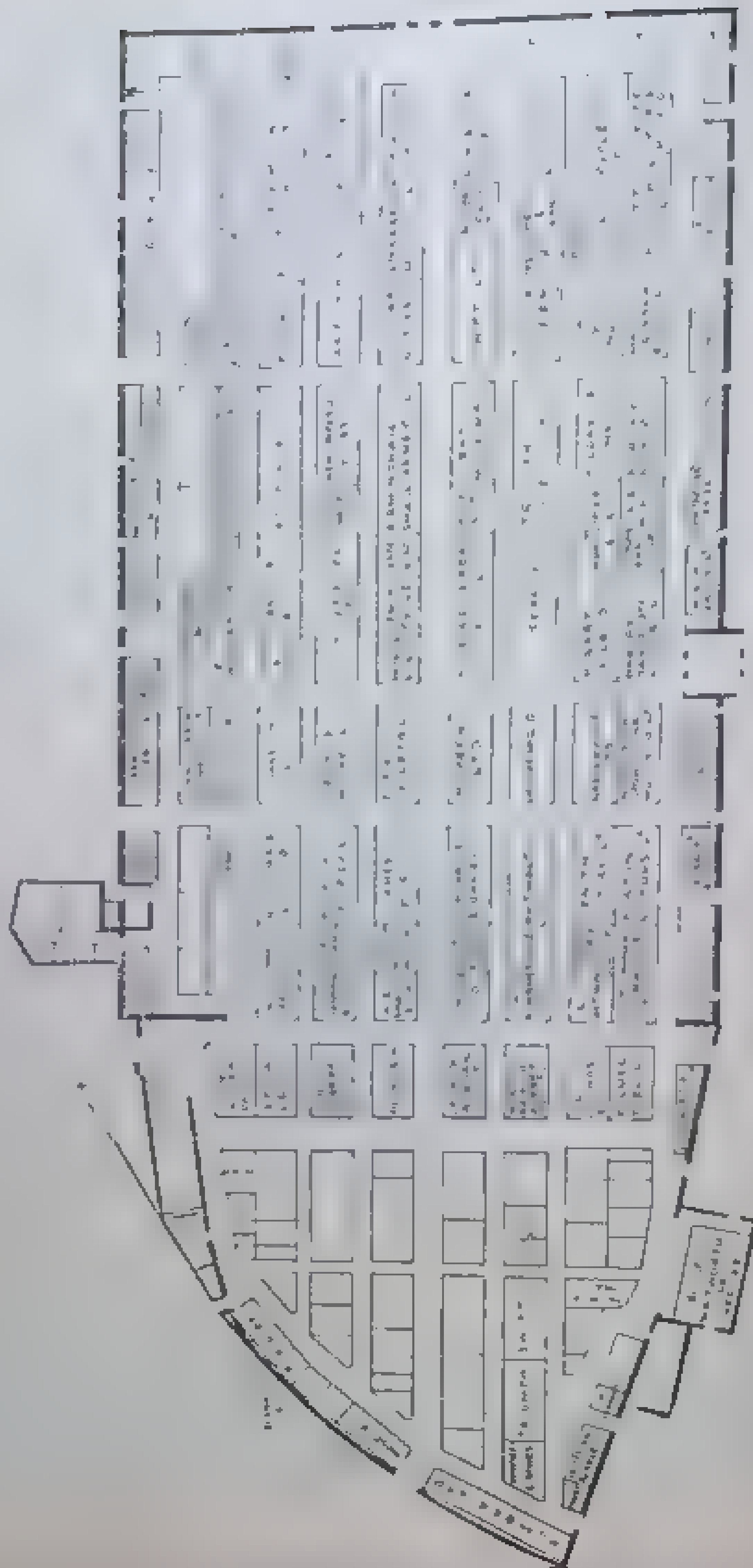
"THERE is a new recklessness about obviously one of the lesser legions of the war—with one equally to infect drivers of all kinds of cars. The consequences are forced on the driver as frequently by the sheer force of the wagon as by the driver's carelessness. All this, however, is no excuse for the use for the past few years of the small boys and old enough to know better. We fear too much of the kind of thing. There may be some of it in the kids' minds, but we must get it out of them. We

Journal of Management Education 30(6)p. 789-804
© The Author(s) 2006



Capt. Alexander Lindsay (4 h.p. Norton) and T. G. Kirk (14 h.p. Ariel) on the harpies bend at Glen Elgin on the second day of the Six Days Trial.

THE 1919 MOTORCYCLE SHOW AT OLYMPIA
PLAN OF THE HALL.



WANT TO FIND A LUCKY COLLECTOR? SEE PAGE 10

The above is a sketch of the proof of the following theorem.



Mrs. Fletcher and Miss Rose Hammett leaving the Douglas works on one of her journeys.

A LADY RIDER'S 15,000 MILES PER YEAR.

The Pleasures of
Riding Three New
Machines
Every Week.

ONE of the first objections with which universal feminine motor cycling has to contend is the fact that it is a new thing. One hears a good deal of talk about it, and although one may say that mental fatigue induced is no worse for it than for any other kind of work, it is not without reason that it is a new thing. It is altogether up to the strenuous nature of the work.

No better proof that this is happily not the case could be provided than the testimony of a famous lady motorcyclist, with whose remarkable riding performance, in search of beauty, this article proposes to deal. Many readers will remember Miss Rose Hammett, of Douglas fame, one of the first women whose names were famous before the war for the pluck, endurance, and skill they displayed.

She is now a well-known figure in the world of motor cycling, and her name is a household word. She is a woman of many talents, and her riding is a masterpiece of skill and endurance.

She is a woman of many talents, and her riding is a masterpiece of skill and endurance. She is a woman of many talents, and her riding is a masterpiece of skill and endurance.

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a new machine from the Kingwood motor works, and she is now a well-known figure in the world of motor cycling.

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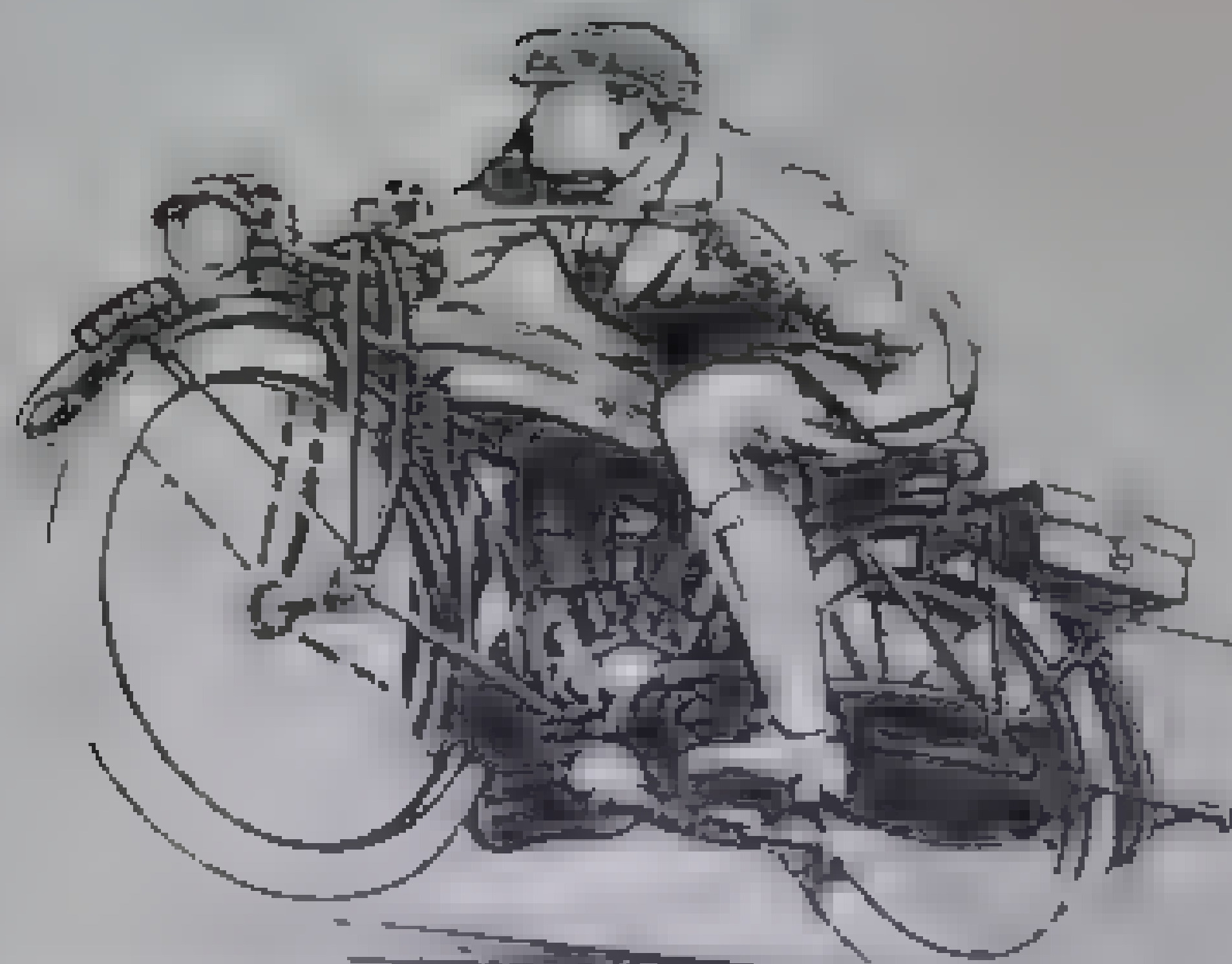
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She is a woman of many talents, and her riding is a masterpiece of skill and endurance. She is a woman of many talents, and her riding is a masterpiece of skill and endurance.



SPEED

WHEN YOU WANT IT

and in as big doses as you like—
because your machine is fitted
with Dunlop rubber studded
motor cycle tyres.

Dunlop rubber studded motor
cycle tyres are *always* satis-
factory in service.

Dunlop

DUNLOP

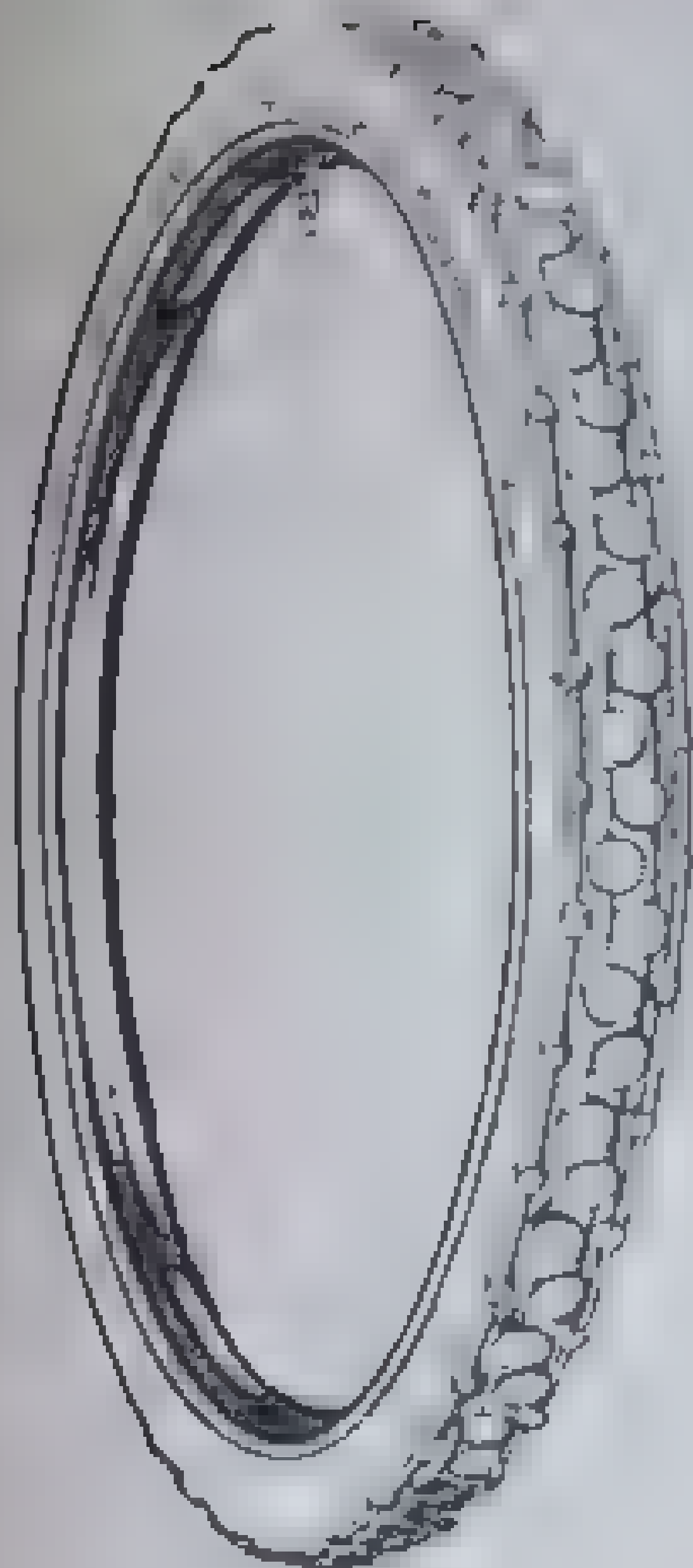
RUBBER CO., LTD.,

Representatives: Messrs. The Motor Cycle Tyre Co., Ltd.

10, Abchurch Lane, LONDON, E.C. 4.

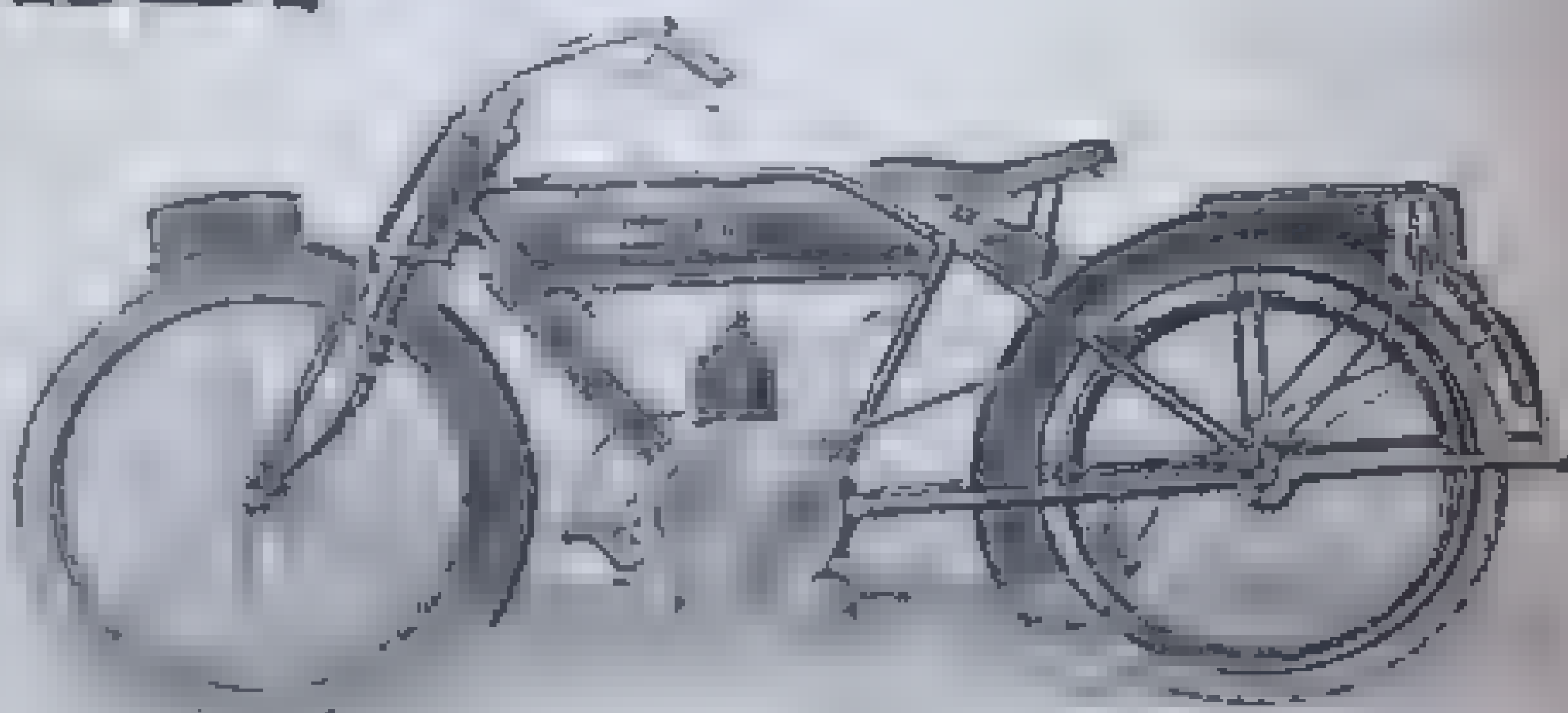
SOLE AGENTS: Messrs. The Motor Cycle Tyre Co., Ltd.

10, Abchurch Lane, LONDON, E.C. 4.



ROYAL RUBY 2½ h.p. 2-stroke Lightweight

— ADVANTAGES —



Price £40 (plus 10 per cent. advance, £44). Net Cash, same cost is provided for Royal Ruby 1

RUBY CYCLE CO LIMITED CANNEL ST ANCOATS MANCHESTER.

What's What

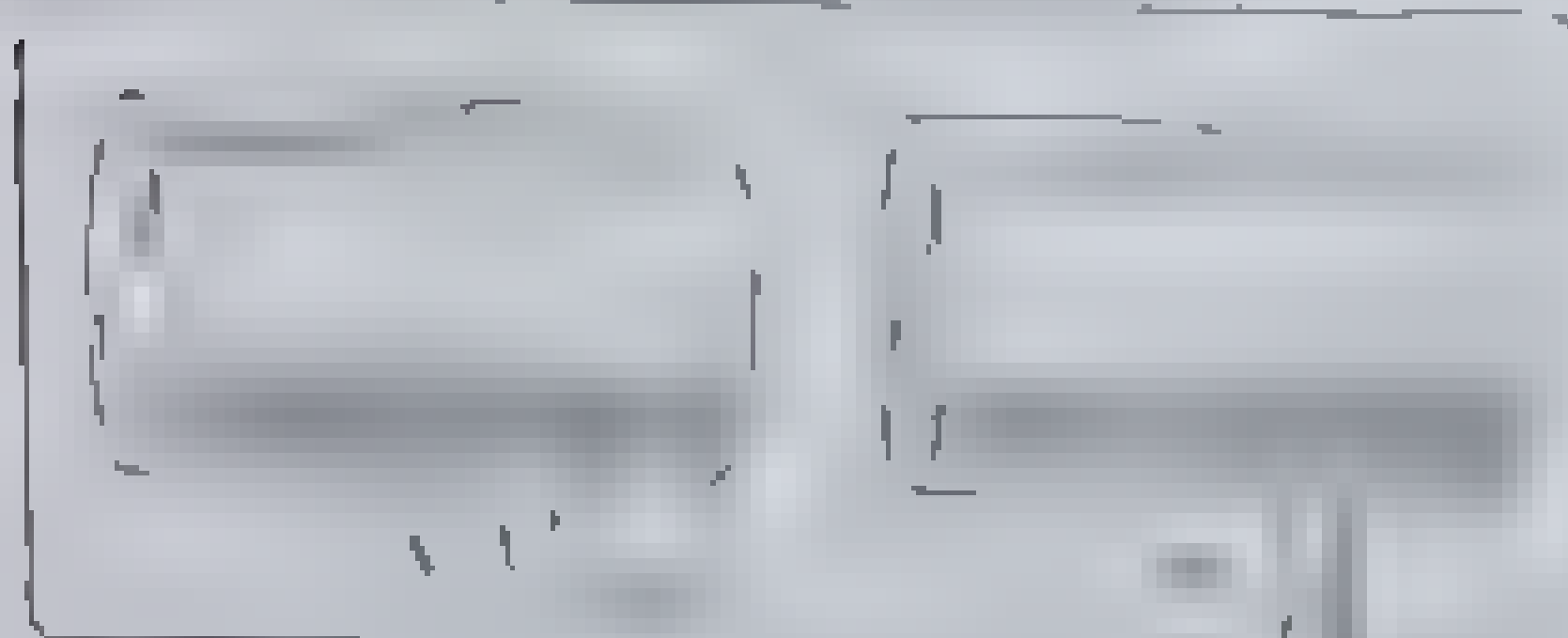


THE SCOTT MOTOR CYCLE CO LTD SALFORD, YORKS & GENERAL REPRESENTATIVE

SCOTT Motor Cycle Co Ltd Salford, Yorks
with the **Scott**
The Diamond Motor Cycle

Correspondence: Dr. J. A. J. van't Hof, Department of Pathology, University Hospital Groningen, P.O. Box 30.001, 3000 RB Groningen, The Netherlands. Tel.: +31 (0) 931 206111; Fax: +31 (0) 931 206112; E-mail: j.a.j.vanthof@azg.umcg.nl

estimate on the Autoglider occurs on recently de-
scribed in (1). As a prospective buyer of a machine
Figs. 1 and 2 on the face of a master the Autoglider
for the purpose of (1) is better than any of
the known power, which
need, and (2) the
weight of the power unit
the weight of the



References

...but I know that

ing like humans

With reference to the correspondence on an
 account, we consider we have gone over our
 your letter corresponding suggestion
 A Good Spring using cold springs early after the rough
 dollar

A Cool Spring & More

vol. 81, 23

There is much also among the motor trade regarding the free importation of American motorcycles, which appear to have a large goodwill in this country. May
Twist Grip I suggest that this be partly due to the

ignost, this type of control is de-
for traffic work and even for long distance touring, as
before the hand to assume a restful position of convenient prop-
of the hand.

I think it would be in the interest of British trade to publish this letter, and invite opinions from other readers. Don't expect extremely keen on this type of control, but not very keen on American machines, I have, with the exception of my trouble, designed and made a hand grip control in fit and monotypic with Bowden wire throttle control. We now wish to get in touch with a manufacturer who could copy the idea for others, hoping, at the same time, that someone will invent

15. Park Avenue, Hollywood, N.W. 3
418

C. W. FINEST

I would like to comment on the speedy delivery of spare parts by Norton Motors, Ltd., of Birmingham. I recently had occasion to order a piston, gudgeon pin, and crankshaft bush, as well as various other small parts for my 1915 machine. I received this was a prompt shipment - this is no days. I consider this to be highly creditable and I am glad to be able to commend the same. Yours faithfully, H. H. H. H.

I replied in *How to Get Along* under "Information and Advice" a query from "J. B." (Dummett), who has a waking post

A Sporting Gift.

It is a leaking joint at the bottom of the barrel of the seat of number 101 where the jet is located. The barrel is the main body. I had the plant renovated in and welded on the outside, which cost I the least of money. If "J.N." cares to call at my address I will show him my workmanship and tell him where I had it repaired.

E. L. Armstrong.

GARAGE EXPERIENCES

T
 1, 1956

Dear
 Torquay
 Lawrence

I am sorry I have not had enough time to
 do so. I am sorry. As motorcycle riding is very
 popular in Dorset, and I am sorry to
 say, it is very popular. I would like to have
 it.


110

They suggested the chaperone and
agent of Union
it did not make

If there is the least
 I know you perfectly. I have to let you
 down sympathetically. A. Narrows.
 101. W. 12th St. S. S. 10th St.



(i) Lieutenant, on his Auto-Glider scooter, was invaluable at the Lutan Moo Speed Trials, carrying messages from one end of the course to the other.



Information and Advice

I am a member of the National Association of Public Health Officers. I could not attend the
 conference in person, but I have been very interested in the work of the Association and
 the work of the National Association of Public Health Officers. I have been very interested
 in the work of the National Association of Public Health Officers and the work of the
 National Association of Public Health Officers. I have been very interested in the work of the
 National Association of Public Health Officers and the work of the National Association of Public Health Officers.

[illegible]

A ... necessary to work out the ...

described by the writer in p. The, a, i
 source, through an all means r fiction
 known. 'I'm' - 'I'm' time/for,
 that's a

has evidently been relaxed, at any rate

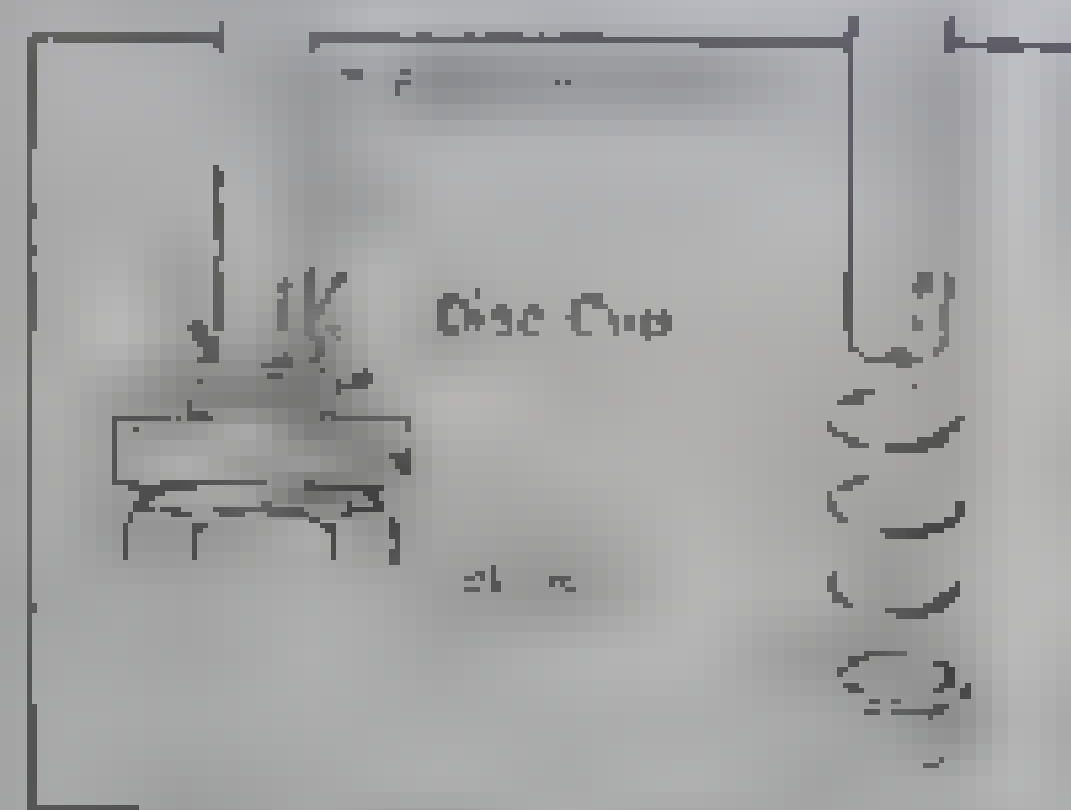
has evidently been relaxed, at any rate

1. The first step is to identify the problem. This involves understanding the situation and the goals that need to be achieved.

() I _____ at _____
_____ at _____
_____ at _____
_____ at _____
_____ at _____
_____ at _____

at I can do to take up the
movement at high speeds.

...the fact that...
better results. To take up the play
...made for Ford case,
...the...the...



1. We have a 2×2 matrix $A = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$ and a vector $\mathbf{v} = \begin{pmatrix} x \\ y \end{pmatrix}$. The matrix A is invertible if and only if $\det(A) \neq 0$. The determinant of A is $\det(A) = ad - bc$. The inverse of A is $A^{-1} = \frac{1}{\det(A)} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$. The product of A and A^{-1} is the identity matrix $I = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$.

[illegible]

1. The first step is to identify the problem. In this case, the problem is that the system is not working properly.

think that the best thing that you can do would be to remove the cylinder and forward it to the makers of your machine, who will be able to cut a new engine.

[illegible]

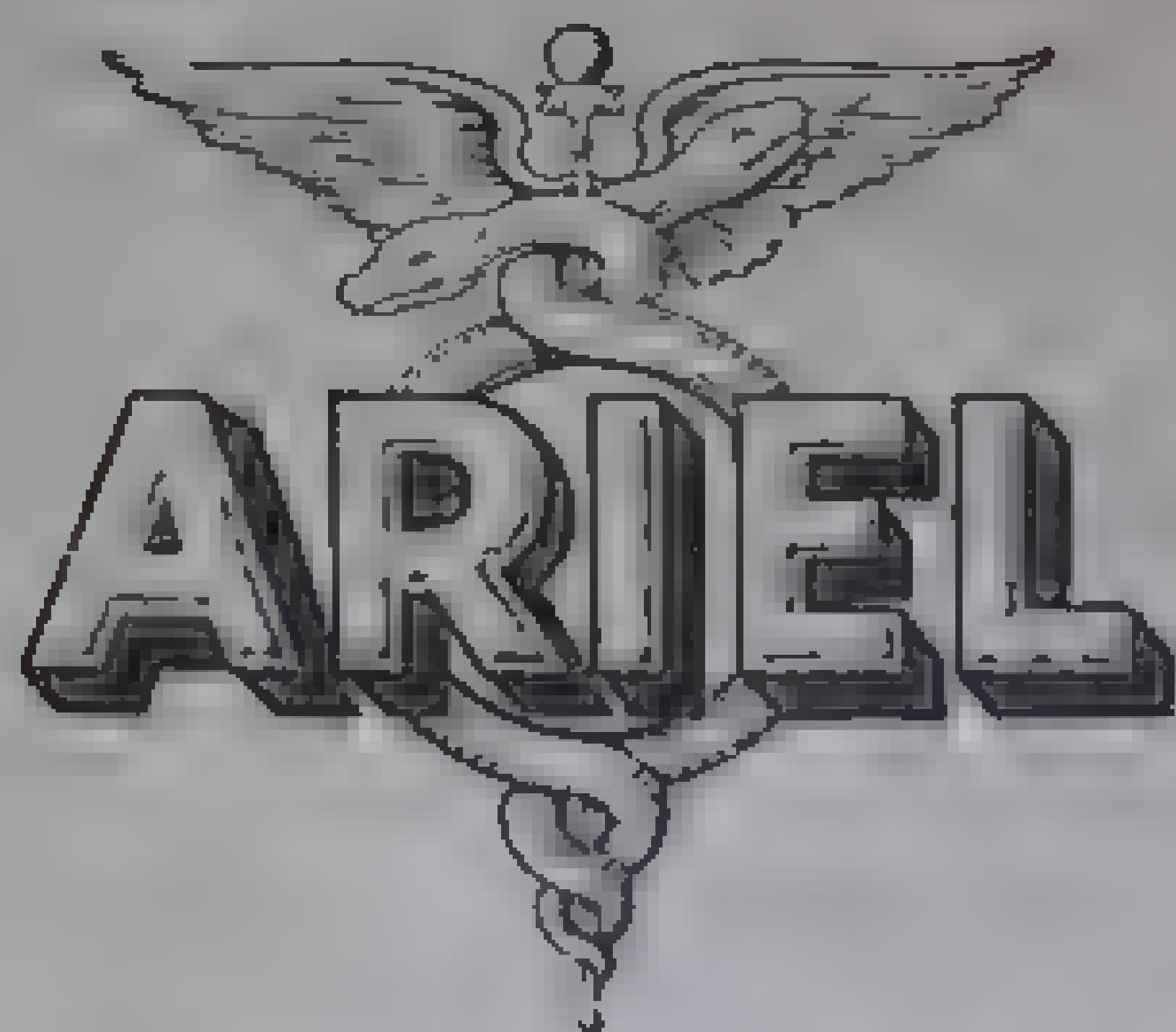
A (1) The following are to be
cylinder may be
a work can at the

last you give it turns to us that
face the engine a little to low gear
the gun up

Q Will you kindly tell me if there is a ferry boat across from Ft. to Greenwood, or any other means of paying a solo motorcycle across? It is desired to travel from Chetumal to Seemanka, avoiding London. —

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[illegible][illegible]



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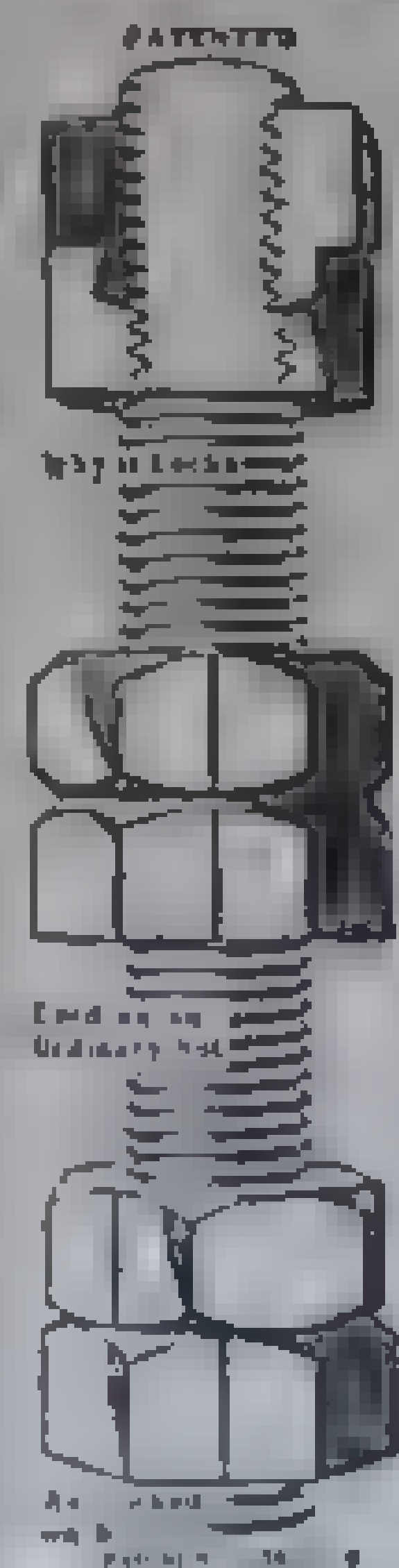
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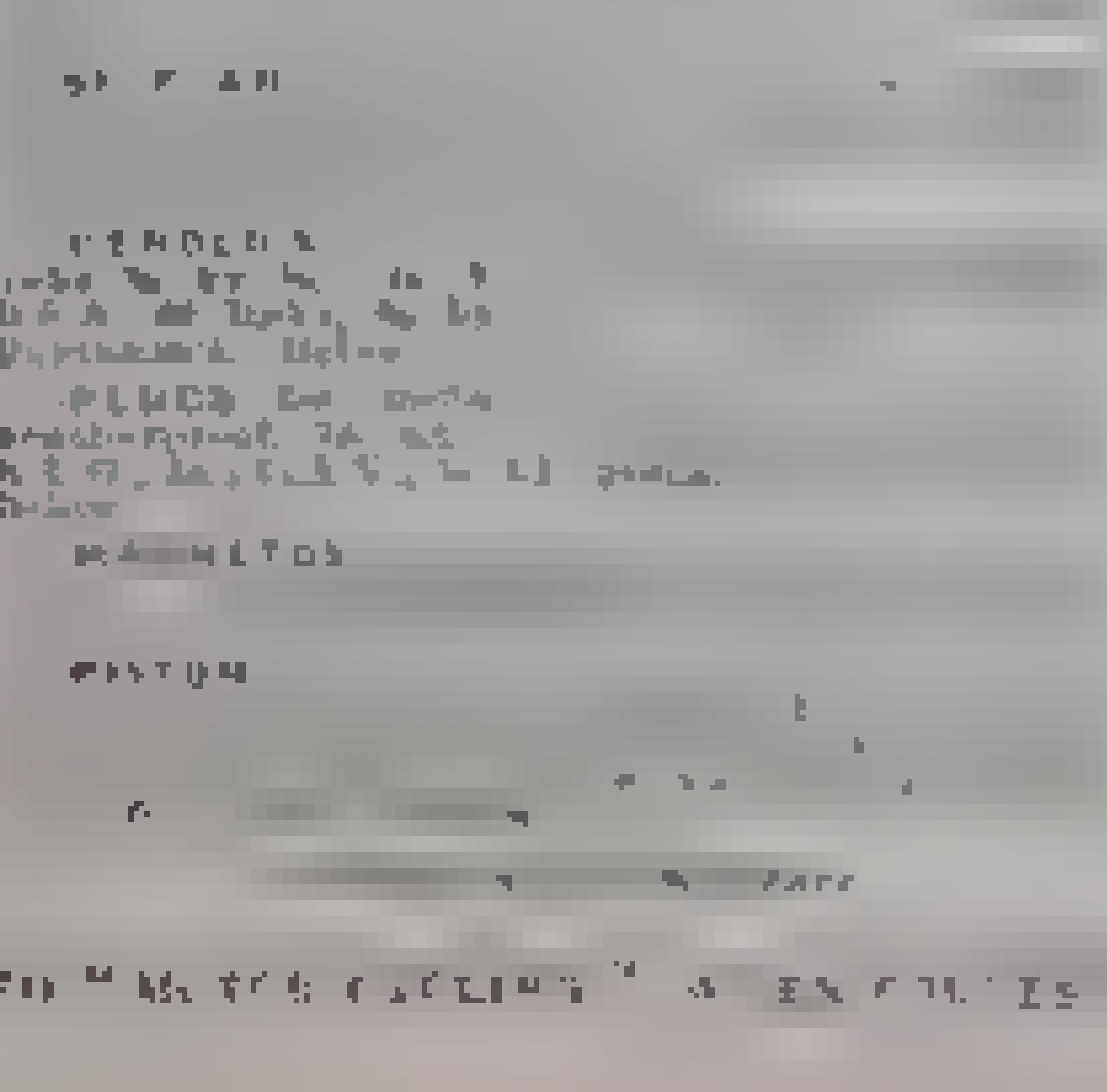
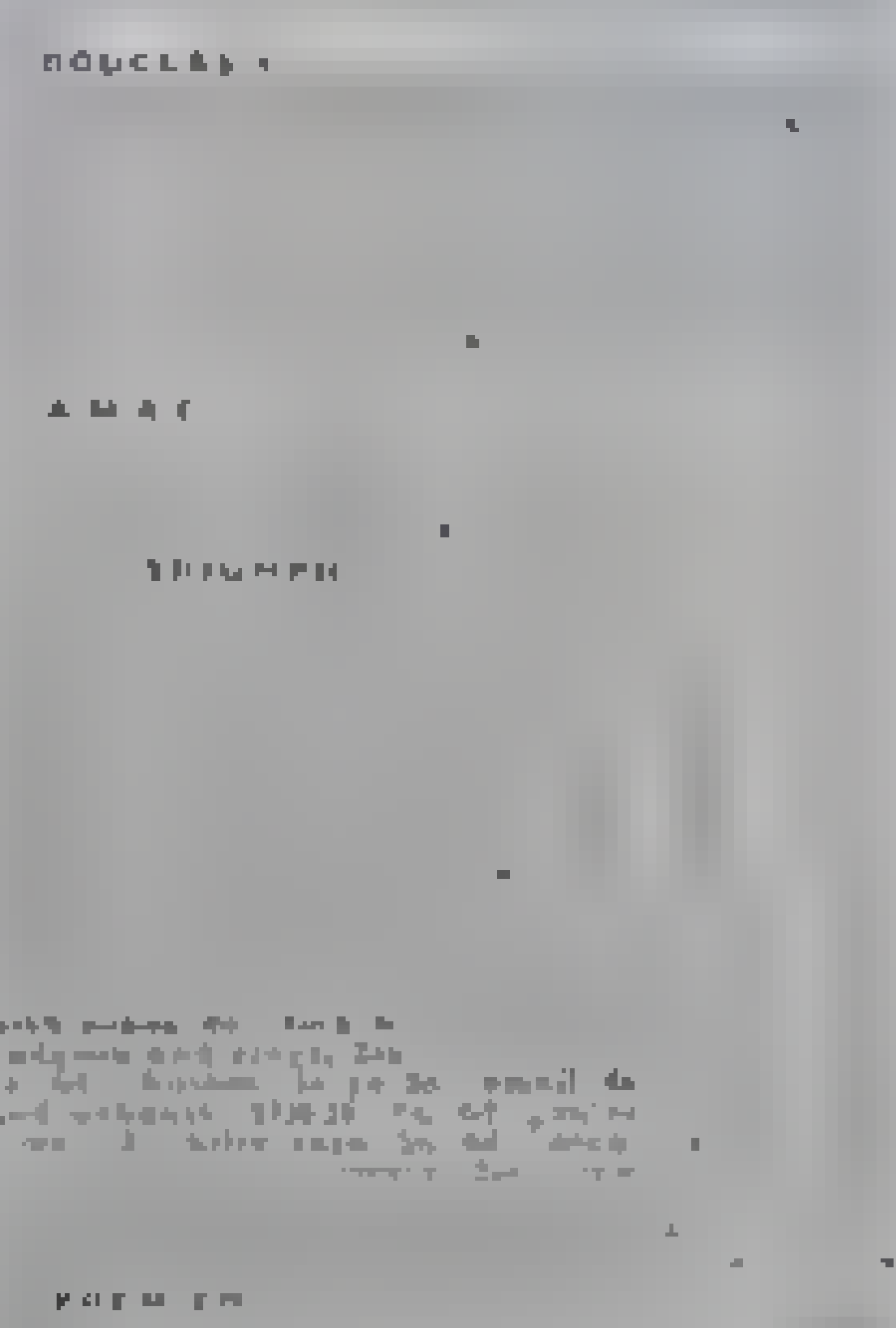
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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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SITUATIONS VACANT

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TANHS

1. 在下列各题中，选择正确的答案，并填入括号内。
 (1) 下列各数中，最小的数是 ()
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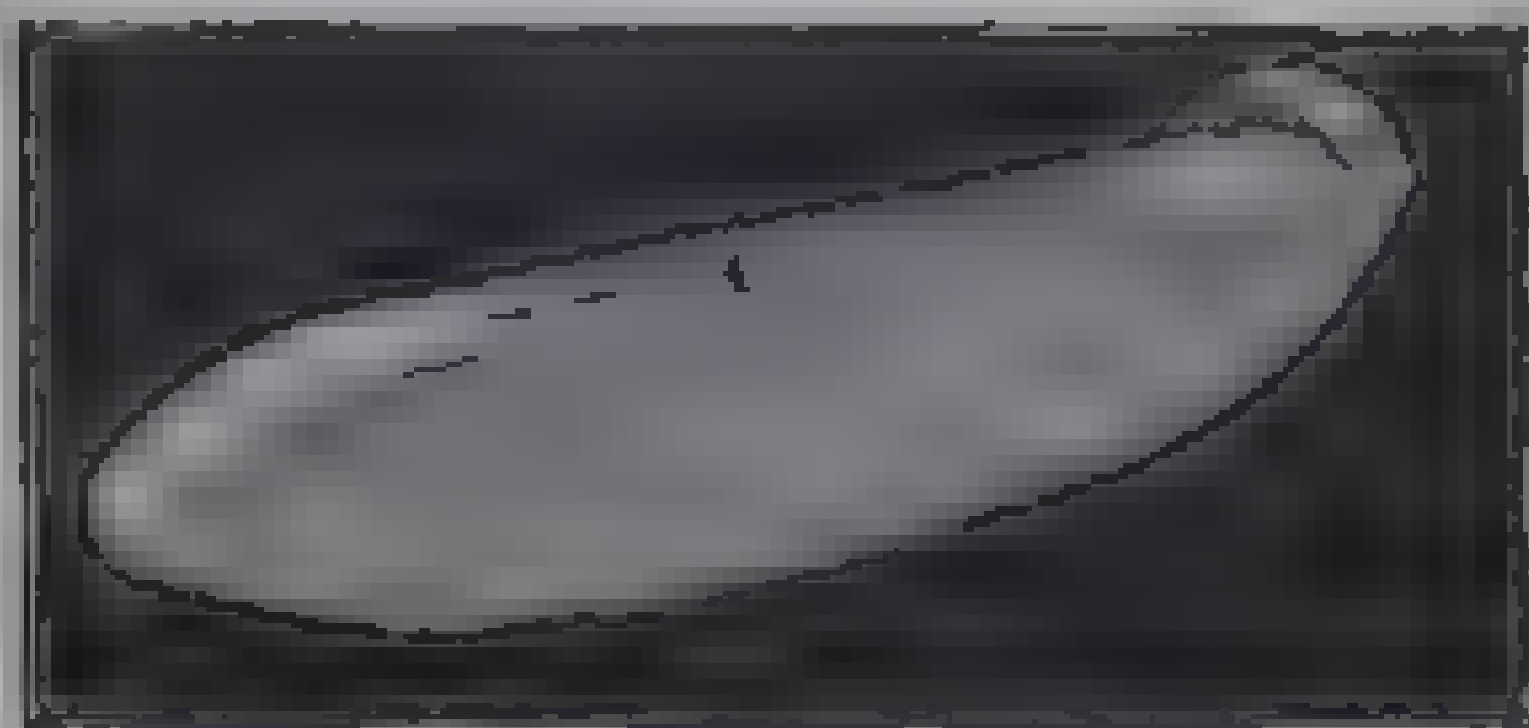
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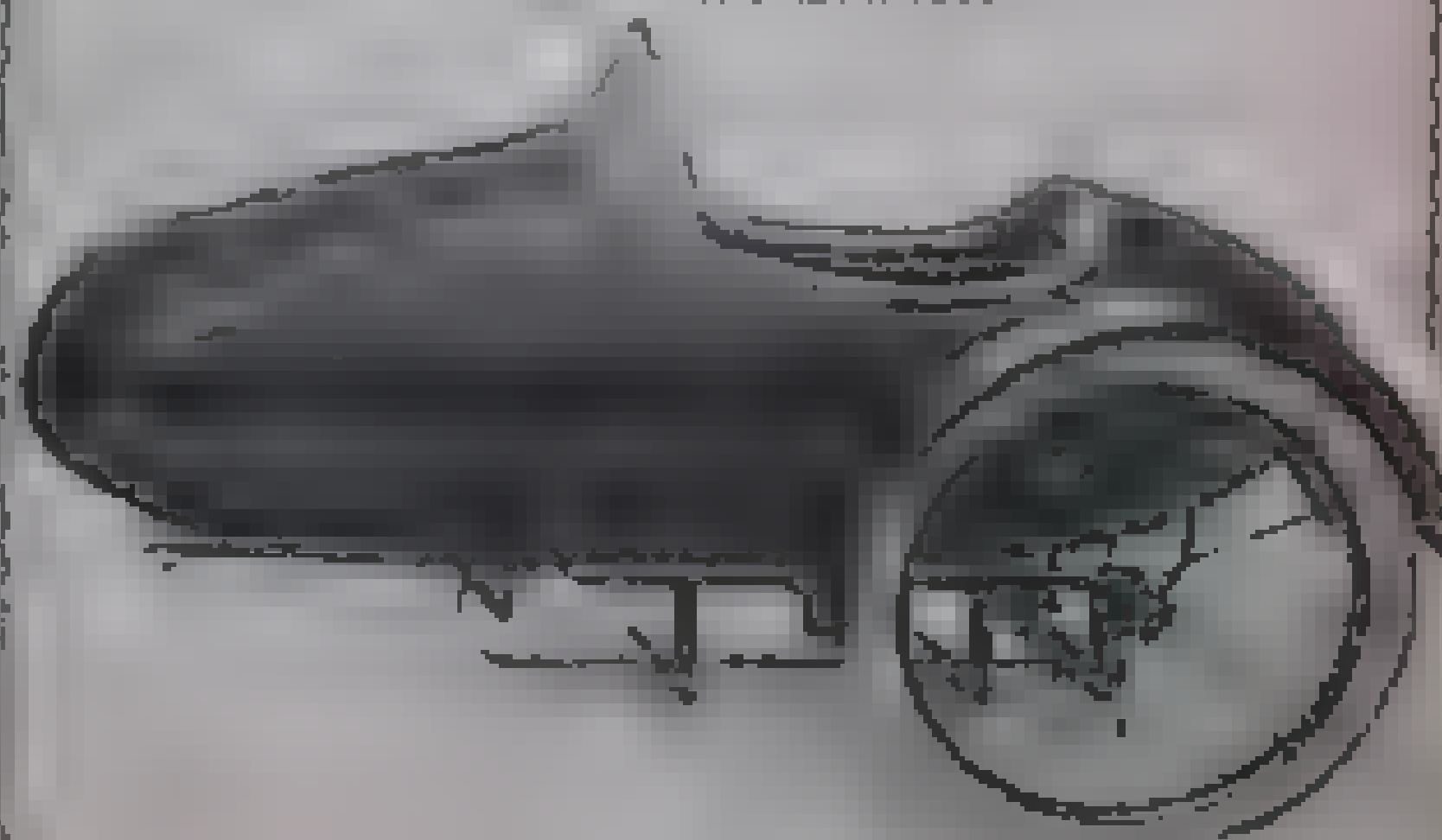
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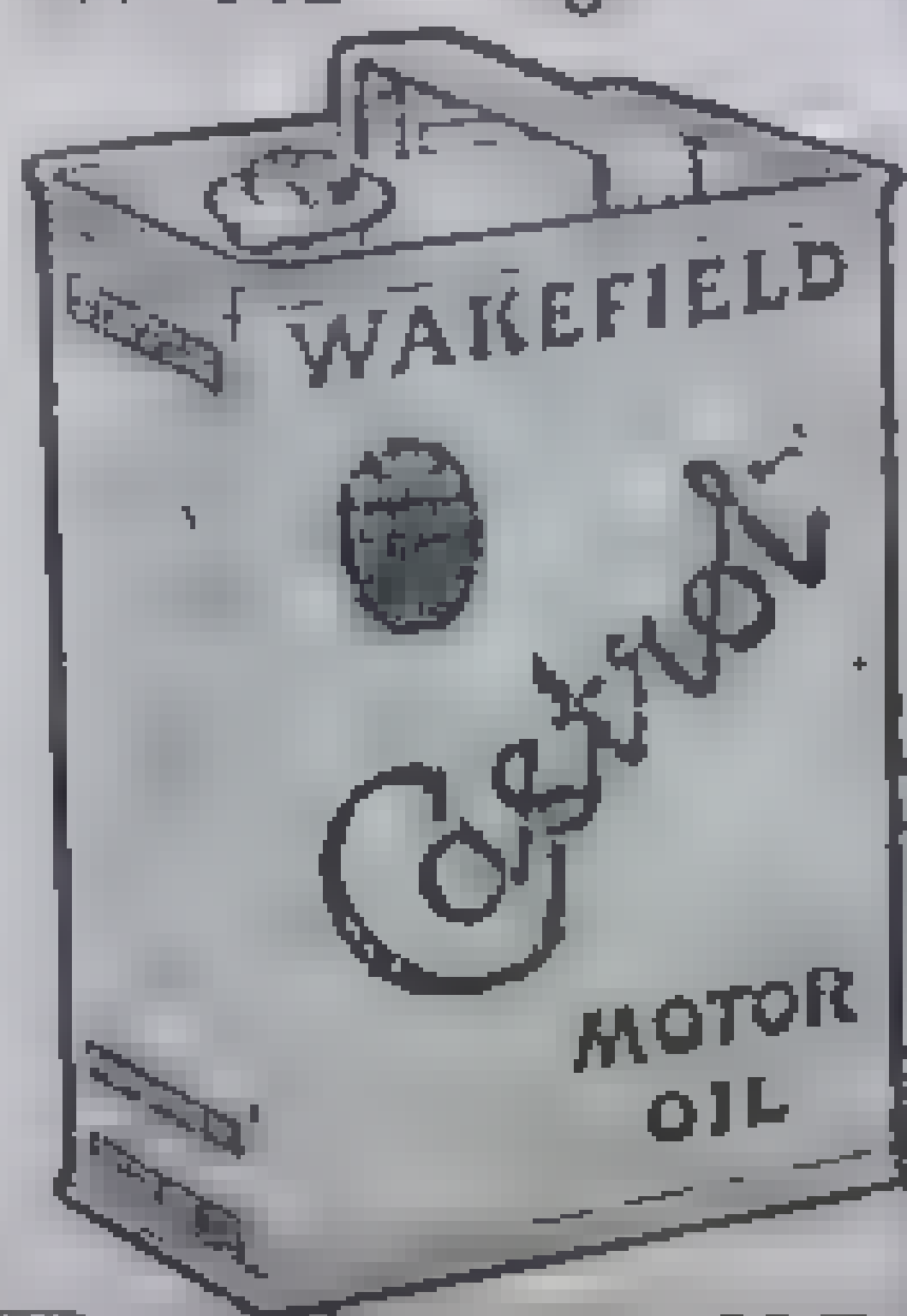
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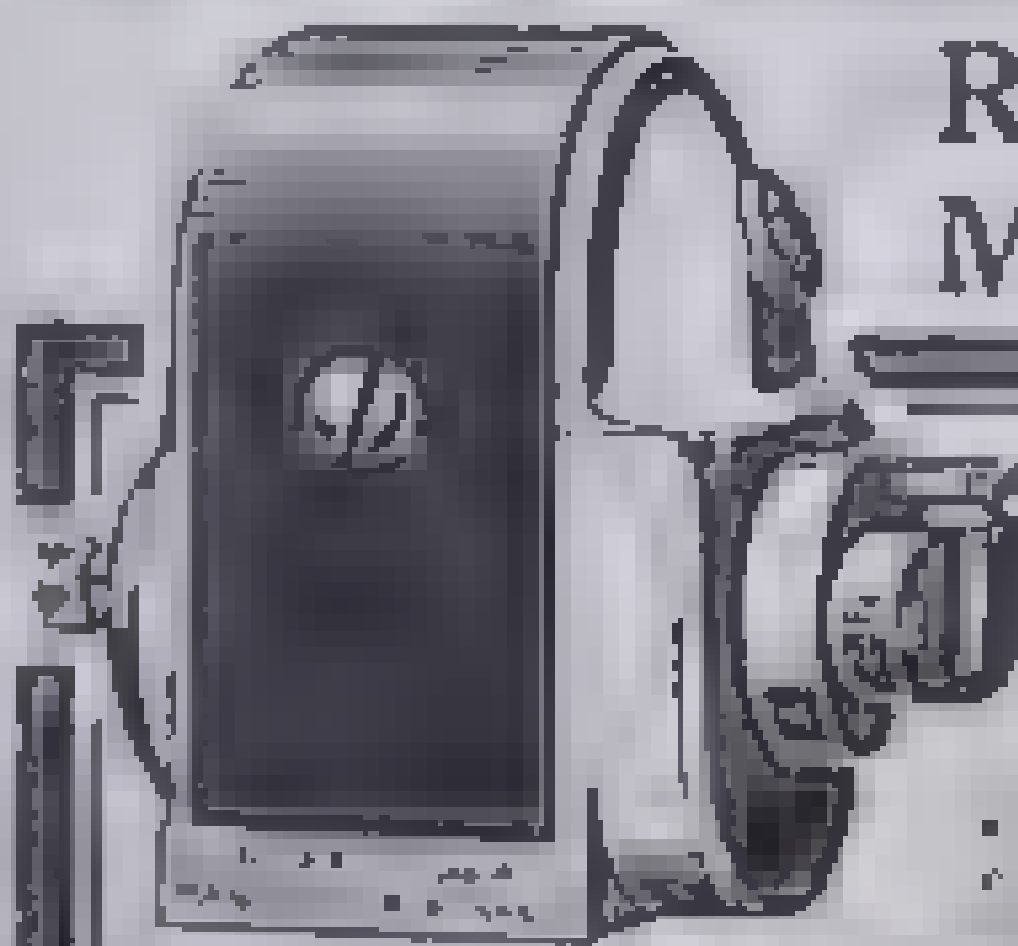
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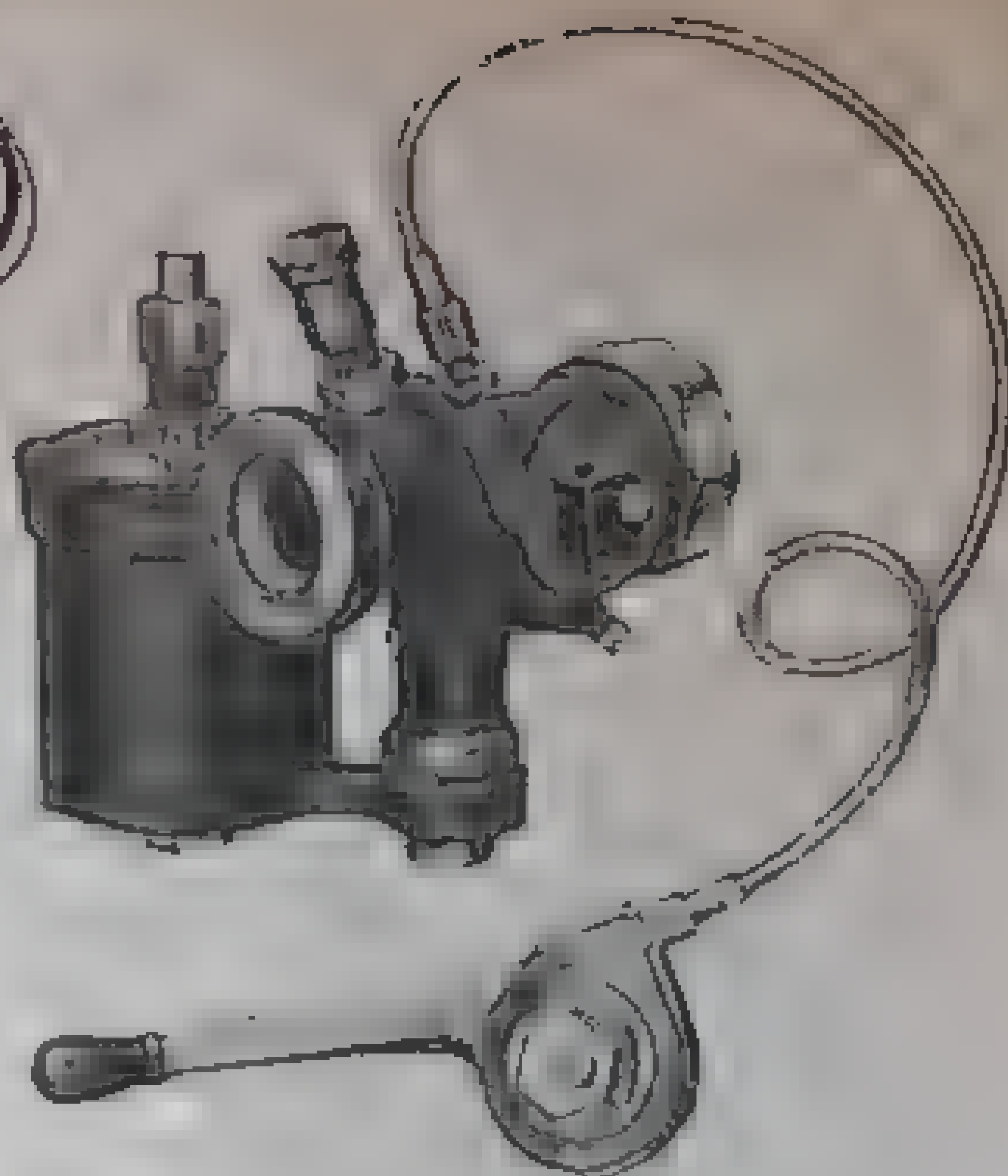
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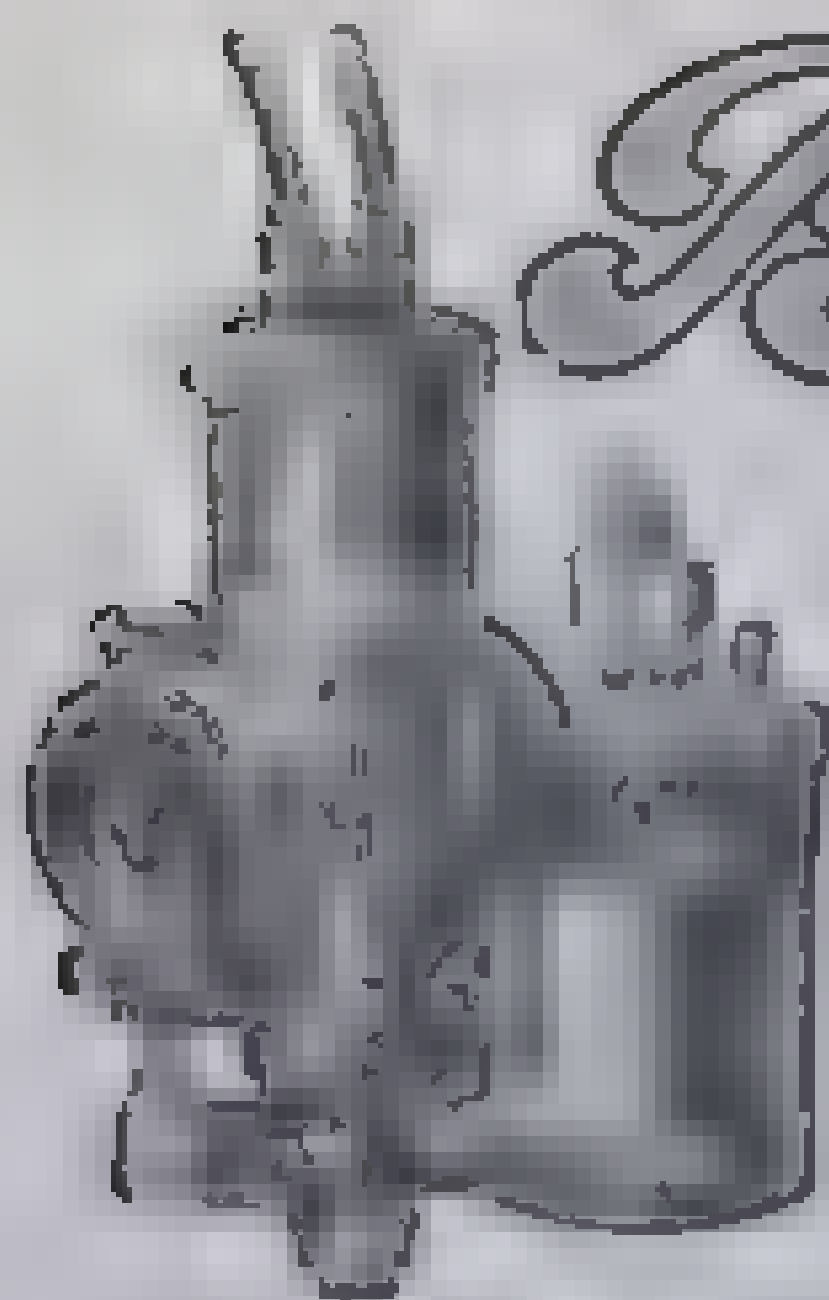
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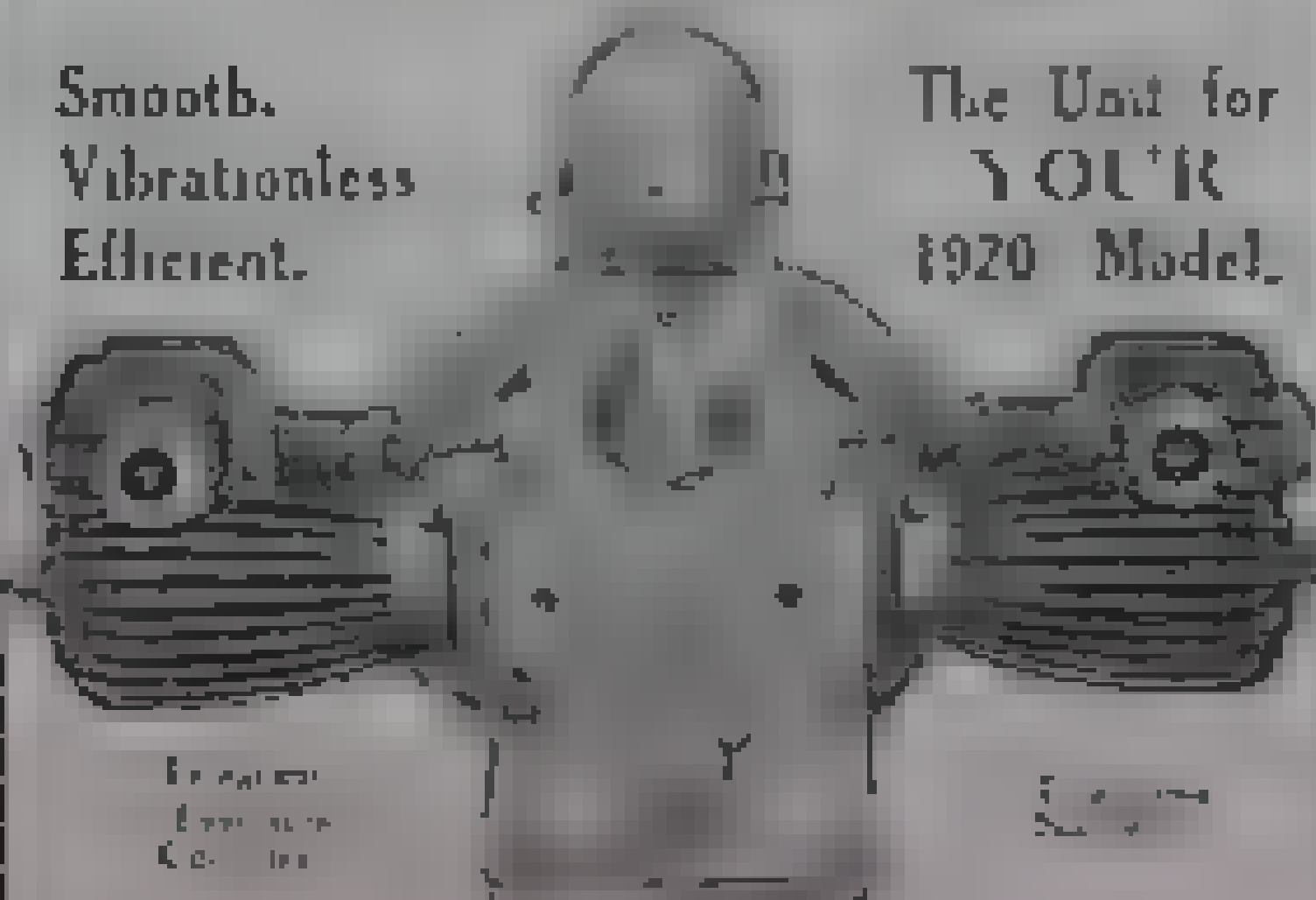
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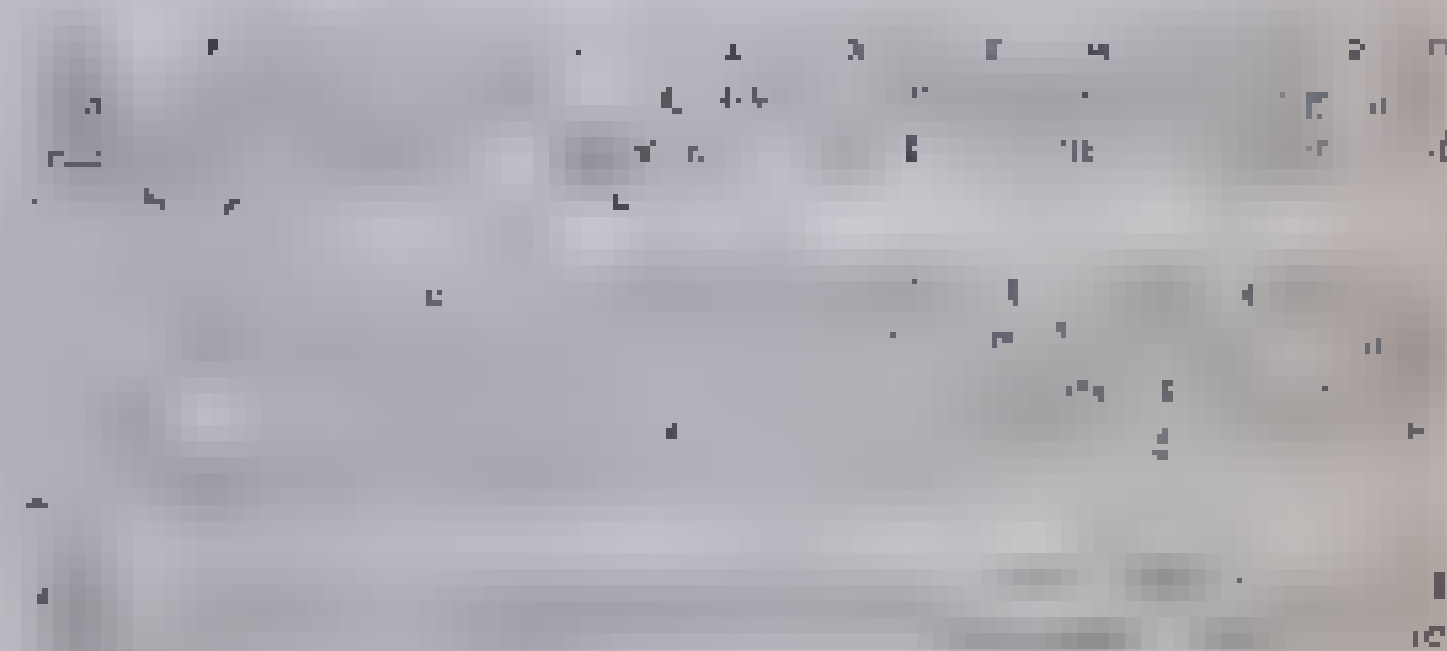


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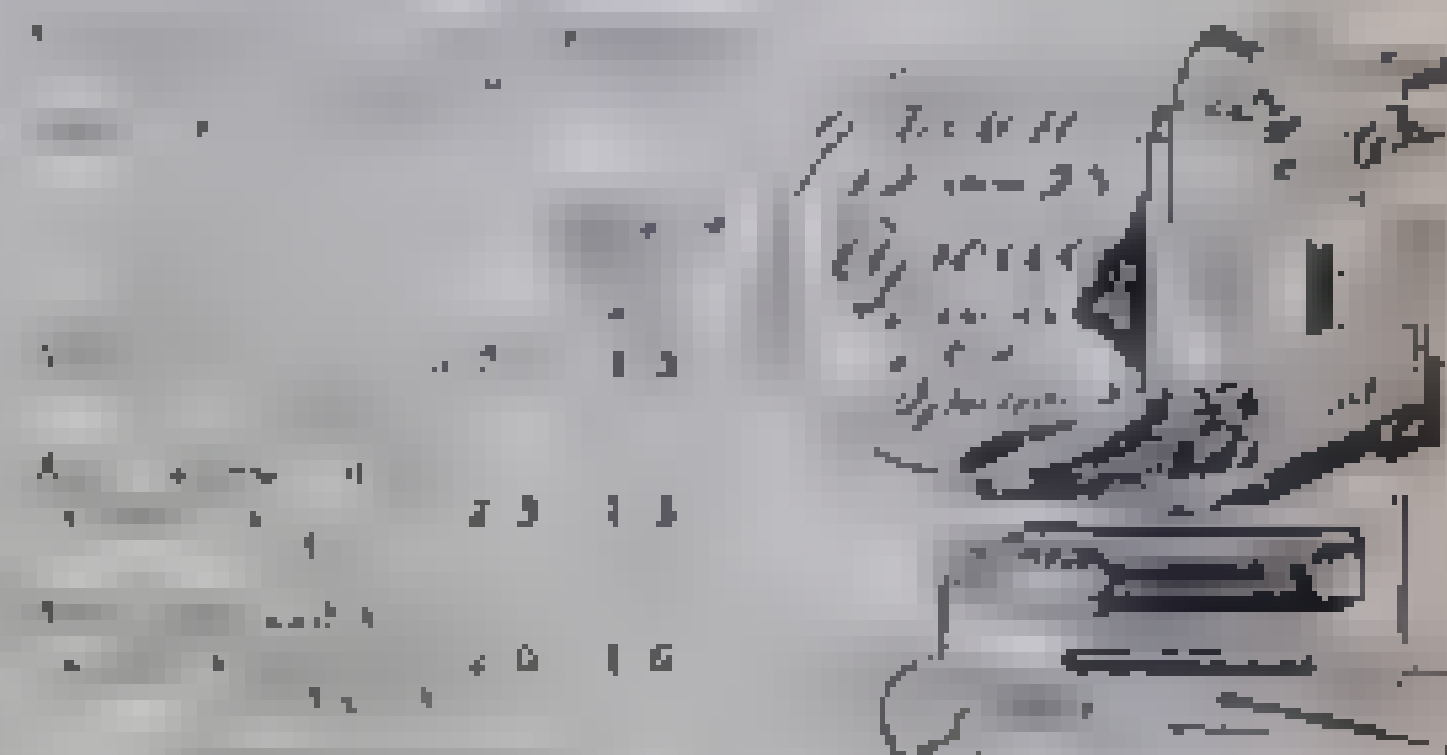
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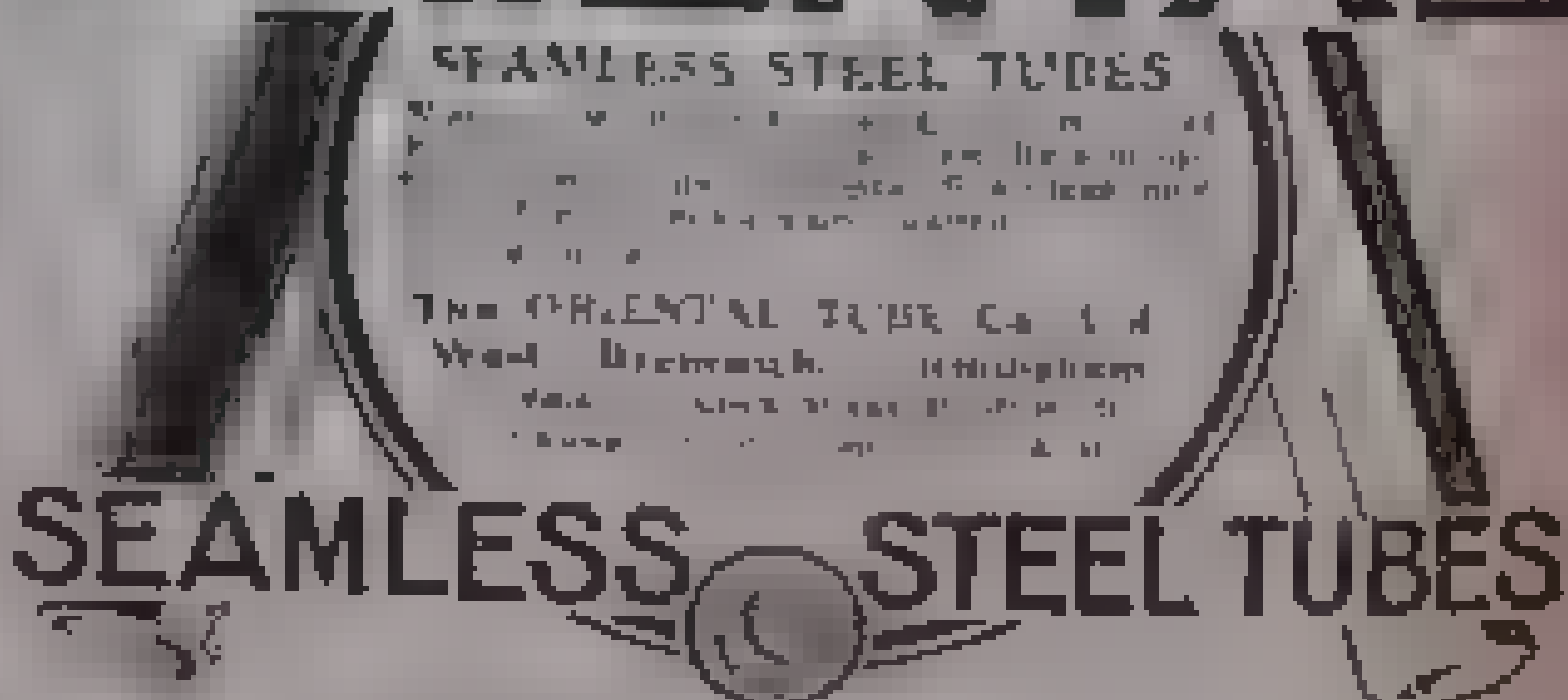
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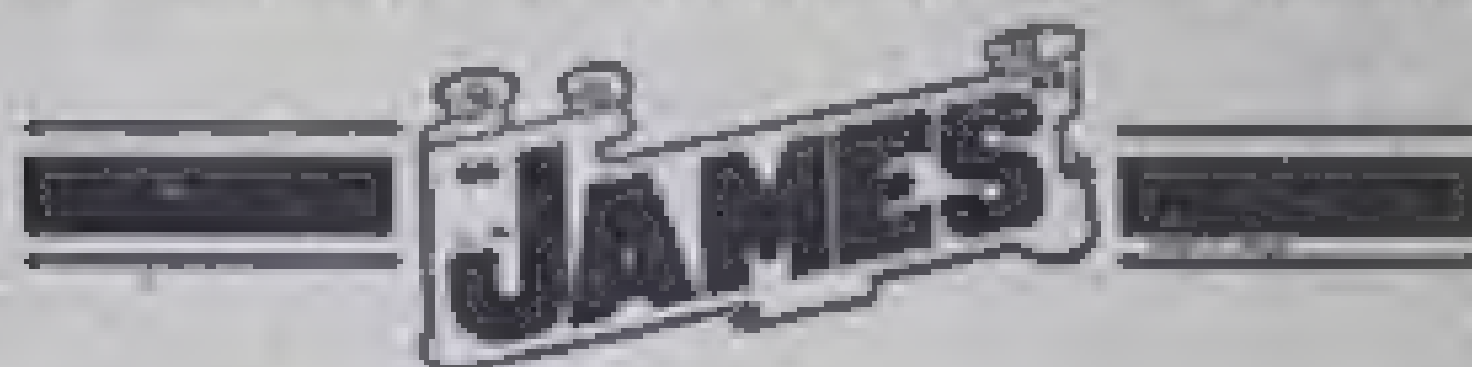


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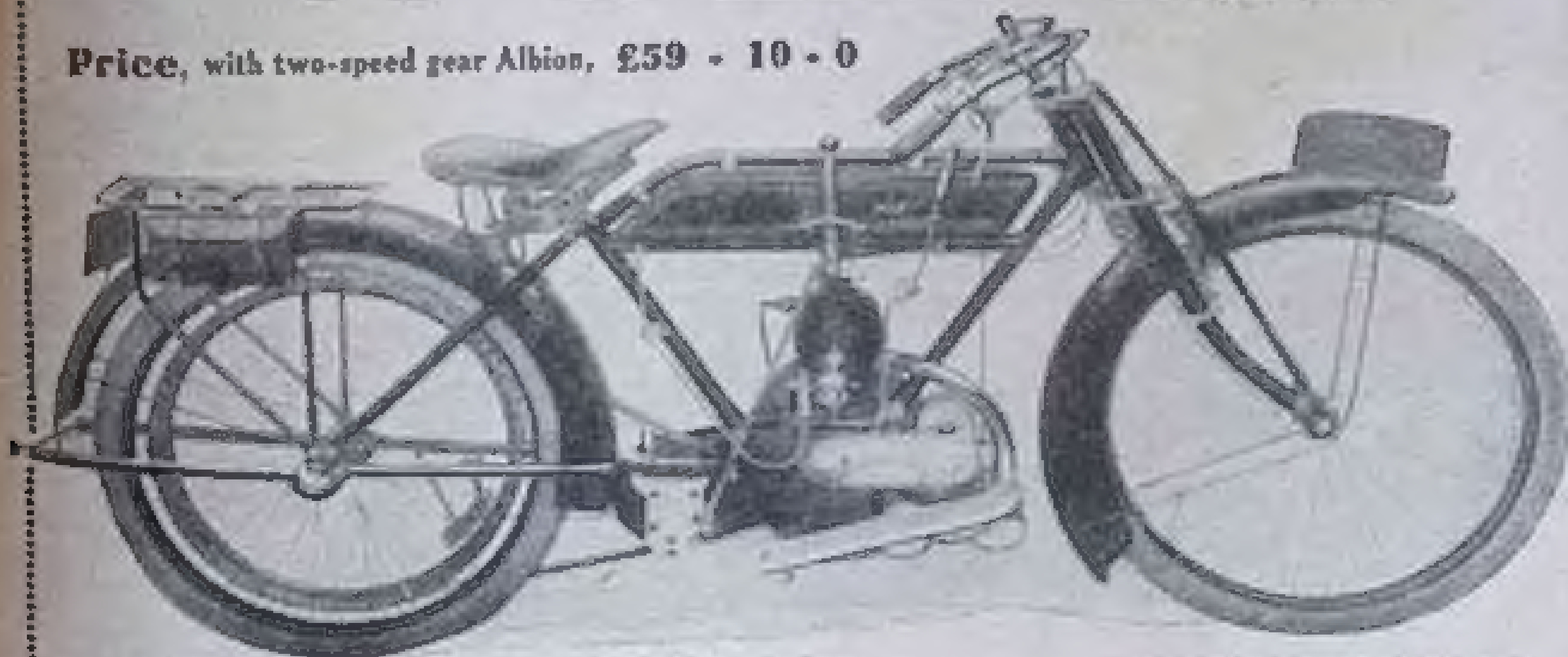
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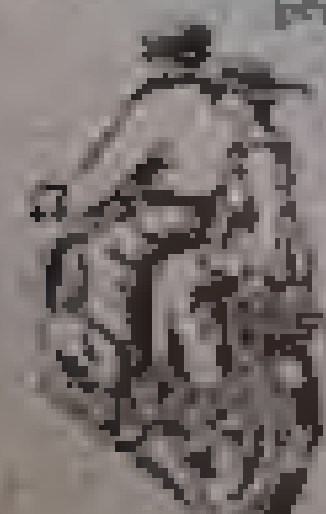
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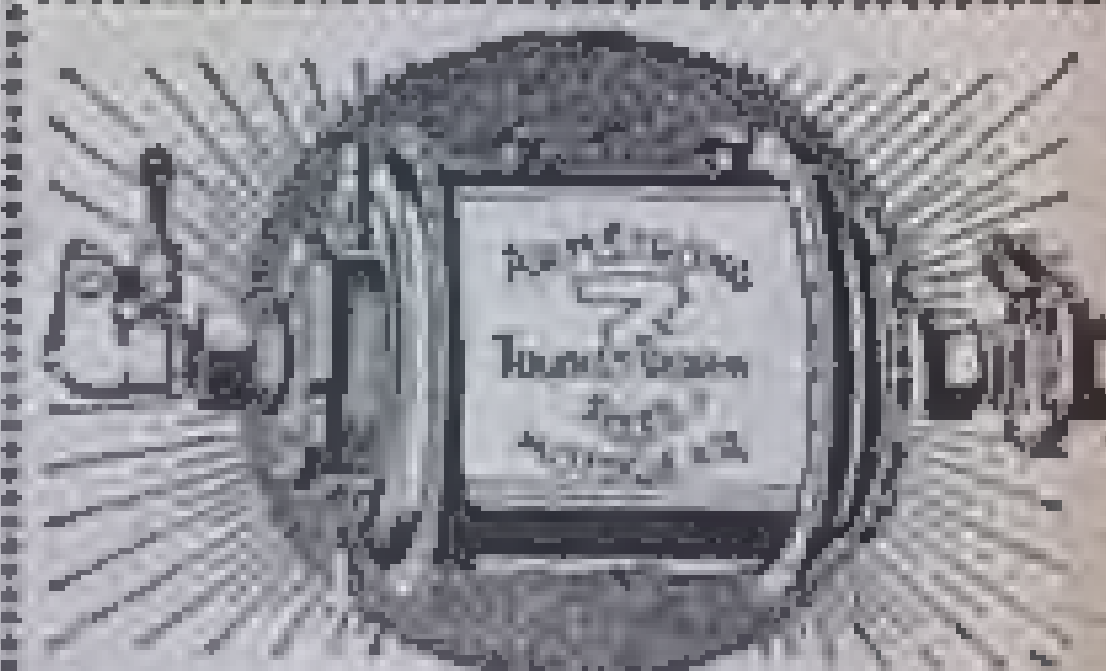
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